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SPECIAL CENSUS REPORT

ON THE

OCCUPATIONS

OF THE

POPULATION OF THE UNITED STATES

AT THE

ELEVENTH CENSUS: 1890.

WASHINGTON, D. C.:
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SPECIAL REPORT

ON THE

STATISTICS OF OCCUPATIONS.

DEPARTMENT OF THE INTERIOR,
OFFICE OF SECRETARY,
DIVISION OF THE ELEVENTH CENSUS,
WASHINGTON, D. C., October 15, 1896.

SIR:

I have the honor to transmit herewith the material for a special report on the Statistics of Occupations. The statistics contained herein relate to the occupations of the people of the United States according to the census of 1890, and show the number of males and females 10 years of age and over engaged in gainful occupations, classified by general nativity, color, age periods, conjugal condition, months unemployed, illiteracy, and inability to speak English. These statistics constitute a part only of the discussion and general tables relating to occupations, which will appear in Part II of the Report on Population, but are all that could be readily printed in advance of the publication in full of the occupation tables, covering more than 550 quarto pages.

This special report on occupations has been prepared by Mr. William C. Hunt, who has had charge of the population work of the Eleventh Census from the beginning, and I desire to thank him for the ability and faithfulness with which he has performed his duties.

The statistics of occupations with respect to mortality, which are too voluminous to form a part of this special report, will appear in Part I of the Report on Vital and Social Statistics, now in process of printing.

The preliminary results of the detailed tabulations of occupations, so far as they pertain to the number of persons of each sex who were engaged in remunerative work at the census of 1890, were published, subject to final revision, in Extra Census Bulletin No. 99, May 18, 1895. Since the publication of that bulletin, a very careful scrutiny and revision, wherever necessary, has been made of the occupation data in all their fullness of detail, and the copy for that section of Part II of the Report on Population, which it alone lacked for its completion, is now ready for transmission to the printer.

The following publications of the Eleventh Census have been, or are ready to be, distributed to the public:

FINAL REPORTS.—Agriculture, including Agriculture by Irrigation and Statistics of Fisheries; Alaska, Population and Resources; Churches; Crime, Pauperism, and Benevolence (Parts I and II); Farms and Homes: Proprietorship and Indebtedness; Indians, Taxed and not Taxed; Insane, Feeble-minded, Deaf and Dumb, and Blind; Insurance (Parts I and II); Manufacturing Industries (Parts I, II, and III); Mineral Industries; Population (Part I); Real Estate Mortgages; Transportation (Parts I and II); Vital and Social Statistics (Parts III and IV); Wealth, Debt, and Taxation (Parts I and II).

MONOGRAPHS.—Vital Statistics of the District of Columbia and Baltimore; Vital Statistics of New York and Brooklyn; Vital Statistics of Boston and Philadelphia; Social Statistics of Cities; Marble Quarrying; Moqui Pueblo Indians; Cherokee Indians; "Six Nation" Indians; "Five Civilized Tribes" Indians; Electrical Industries in the State of New York; Education; Street Railways; Transportation on the Pacific Coast; Transportation on the Rivers of the Mississippi Valley; Transportation on the Great Lakes; Textiles; Irrigation; Glue.

MISCELLANEOUS.—Compendium of the Eleventh Census (Parts I and II); Abstract of the Eleventh Census (first and second editions).

The volumes yet to be issued are as follows: Population (Part II); Vital and Social Statistics (Parts I and II); Compendium of the Eleventh Census (Part III); Statistical Atlas. These five volumes will only require a small force for proof reading and typographical revision.

Very respectfully,

CARROLL D. WRIGHT,
Commissioner of Labor in charge of the Eleventh Census.

The SECRETARY OF THE INTERIOR.

STATISTICS OF OCCUPATIONS.

The statistics of occupations, as derived from the returns made by the census enumerators on the population schedule, comprehend only those persons 10 years of age and over who were reported as being occupied in some form of remunerative work. Children under 10 years of age are not included, although they were often reported as having been employed at gainful labor during a portion of the census year. This was the practice observed at the censuses of 1870 and 1880, and it has been adhered to in the census of 1890.

At the present census (1890) no radical departure was made from the general plan of classifying occupations adopted in 1870 and 1880, but several changes were made for various reasons, as follows:

First, by the transfer to "Agriculture, fisheries, and mining" of fishermen and oystermen, lumbermen and raftsmen, miners, quarrymen, and wood choppers, from "Manufacturing and mechanical industries".

Second, by the transfer to "Domestic and personal service" of barkeepers (1870 only), employés in warehouses (1880 only), laborers in trade and transportation (1870 only), saloon keepers and bartenders (1880 only), and stewards and stewardesses, from "Trade and transportation", and of engineers and firemen and ice cutters (1870 only), from "Manufacturing and mechanical industries".

Third, by the transfer to "Trade and transportation" of auctioneers, card writers (1870 only), claim agents (1870 only), collectors and claim agents (1880 only), clerks and copyists not otherwise described, clerks in government offices, clerks in hotels and restaurants, employés of companies not specified (1870 only), hostlers, intelligence office keepers (1870 only), livery stable keepers, messengers, officials of companies not specified (1870 only), and shorthand writers (1870 only), from "Domestic and personal service", and of clerks and bookkeepers in manufacturing establishments, officials of mining companies (1870 only), and rag pickers, from "Manufacturing and mechanical industries".

Fourth, by the transfer to "Manufacturing and mechanical industries" of apprentices to barbers, dentists, and learned professions (1870 only), and whitewashers, from "Domestic and personal service", and of apprentices in stores (1870 only), from "Trade and transportation".

There has been no change in the classification of persons engaged in professional pursuits, given in 1870 and 1880 under the heading of "Professional and personal services", except to classify them in 1890 under the heading of "Professional service", separate from persons engaged in "Domestic and personal service".

The classification in 1890 of persons engaged in mining and fishing and in securing the products of the forests with persons engaged in agricultural pursuits, under the heading of "Agriculture, fisheries, and mining", is one mainly of convenience, which was also the governing reason for their classification originally in 1870, and again in 1880, with persons engaged in manufacturing and mechanical industries. On the score of convenience solely, therefore, it has seemed desirable to include them in a small class, so far as number of occupation designations is concerned, where they can be readily found, and from which they can be easily excluded, if it is desired to determine the number of persons engaged simply in agricultural pursuits.

With respect to the remaining transfers of occupations from one class to another which have been made, no explanation seems especially necessary, with one exception. This exception relates to the classification under "Trade and transportation" of accountants, bookkeepers, clerks, and copyists of all kinds, irrespective of where they may happen to be employed. In the case of the comparatively small number of persons who are occupied in the purely clerical part of the work incident to the production of goods or the conduct of professional and personal services, governmental or otherwise, there does not seem to be any particularly valid reason for reporting their number separate from that of the great body of clerks and bookkeepers who, on broad grounds, are engaged in practically the same kind of work. Clerks in government offices, as well as those in the offices of professional people, are, after all, largely occupied in keeping the "accounts" of the respective pursuits with which they are associated, and in this aspect have been very properly consolidated with bookkeepers and clerks engaged in purely mercantile pursuits.

STATISTICS OF POPULATION.

The force of this statement becomes more apparent when it is considered that the primary purpose of the classification of occupations in 1890 has been to show, so far as the returns of the census enumerators would permit, the character of the service rendered or kind of work done rather than to indicate the place of employment or the particular article made or worked upon. From the standpoint of the "individual" return, this is really the only practicable basis for classifying occupations, especially as from the returns of the manufacturing, mechanical, and mining industries we are enabled to secure through the census an approximately accurate statement of the average number of persons of all sorts and kinds engaged in each particular industry, as derived from the returns of the establishments directly engaged in such production, and from which it is also possible to secure, wherever necessary, a much more minute subdivision and correct classification of the labor essential to the production of any specified kind of goods.

OCCUPATIONS BY SEX.

The number of persons of each sex 10 years of age and over in 1890 engaged in each class of occupations is shown by states and territories in Table 1, and the number engaged in each specified occupation for the entire country in Table 2 and by states and territories in Table 3.

The whole number of persons 10 years of age and over engaged in gainful occupations in 1890 was 22,735,661, constituting 36.31 per cent of the entire population of the country and 47.95 per cent of all persons 10 years of age and over. In 1880 there were 17,392,099 persons 10 years of age and over engaged in gainful occupations, constituting 34.68 per cent of the total population and 47.31 per cent of the whole number of persons 10 years of age and over at that census.

Of the 22,735,661 persons engaged in gainful occupations in 1890, 18,821,090 were males and 3,914,571 were females, constituting 58.69 and 12.81 per cent, respectively, of the whole number of males and females and 77.29 and 16.97 per cent, respectively, of all males and females 10 years of age and over. In 1880 there were 14,744,942 males and 2,647,157 females engaged in gainful occupations, constituting 57.78 and 10.74 per cent, respectively, of all males and females and 78.70 and 14.69 per cent of those of each sex 10 years of age and over.

The above figures are given in detail as follows:

SEX AND CENSUS YEARS.	Total population.	Population 10 years of age and over.	Persons 10 years of age and over engaged in gainful occupations.	PER CENT OF PERSONS ENGAGED IN GAINFUL OCCUPATIONS OF—	
				Total population.	Population 10 years of age and over.
Both sexes:					
1890	62,622,250	47,413,559	22,735,661	36.31	47.95
1880	50,155,783	36,761,607	17,392,099	34.68	47.31
Males:					
1890	32,067,880	24,352,659	18,821,090	58.69	77.29
1880	25,518,820	18,735,980	14,744,942	57.78	78.70
Females:					
1890	30,554,370	23,060,900	3,914,571	12.81	16.97
1880	24,636,963	18,025,627	2,647,157	10.74	14.69

The following table gives by states and territories the number and percentage of males and females 10 years of age and over engaged in gainful occupations at the censuses of 1880 and 1890:

STATES AND TERRITORIES.	MALE POPULATION 10 YEARS OF AGE AND OVER IN 1890.			MALE POPULATION 10 YEARS OF AGE AND OVER IN 1880.			FEMALE POPULATION 10 YEARS OF AGE AND OVER IN 1890.			FEMALE POPULATION 10 YEARS OF AGE AND OVER IN 1880.		
	Total.	Number and per cent engaged in gainful occupations.		Total.	Number and per cent engaged in gainful occupations.		Total.	Number and per cent engaged in gainful occupations.		Total.	Number and per cent engaged in gainful occupations.	
		Number.	Per cent.		Number.	Per cent.		Number.	Per cent.		Number.	Per cent.
The United States.....	24,352,659	18,821,090	77.29	18,735,980	14,744,942	78.70	23,060,900	3,914,571	16.97	18,025,627	2,647,157	14.69
North Atlantic division.....	6,904,566	5,543,041	80.28	5,527,160	4,333,047	78.40	6,983,811	1,428,419	20.45	5,742,930	976,675	17.01
Maine	271,787	212,033	78.01	258,587	198,465	76.75	269,875	45,063	16.70	261,082	33,528	12.84
New Hampshire.....	155,928	127,845	81.99	139,807	112,340	80.35	159,569	36,858	23.10	146,381	30,128	20.58
Vermont.....	137,899	108,804	78.90	132,036	102,417	77.57	133,274	19,967	14.98	132,016	16,167	12.25
Massachusetts.....	887,063	719,166	81.07	681,786	546,591	80.17	952,544	263,278	27.64	750,397	174,183	23.21
Rhode Island.....	135,955	113,164	83.24	104,986	87,120	82.98	146,004	42,714	29.26	115,475	29,859	25.86
Connecticut.....	300,675	245,634	81.69	242,392	192,663	79.48	309,155	71,380	23.09	254,911	48,670	19.09
New York.....	2,385,622	1,921,785	80.56	1,950,059	1,524,264	78.17	2,436,770	513,940	21.09	2,031,369	360,381	17.74
New Jersey.....	568,585	459,467	80.81	426,451	330,103	77.41	574,538	111,271	19.37	439,140	60,776	15.21
Pennsylvania.....	2,061,052	1,635,143	79.34	1,691,056	1,239,084	77.88	2,002,082	323,948	16.18	1,612,159	216,983	13.46
South Atlantic division.....	3,178,769	2,431,787	76.50	2,588,035	2,119,492	81.90	3,237,152	686,269	21.20	2,698,610	558,270	20.69
Delaware.....	67,309	53,938	80.13	56,003	46,652	83.30	64,658	10,348	16.00	54,853	7,928	14.45
Maryland.....	392,485	308,515	78.61	341,621	265,632	77.76	406,120	84,752	20.87	353,743	58,800	16.62
District of Columbia.....	88,703	68,992	77.78	63,429	46,966	74.04	99,864	32,127	32.17	73,478	19,658	26.75
Virginia.....	598,677	445,473	74.41	516,395	411,043	79.60	613,257	106,366	17.34	542,639	83,197	15.33
West Virginia.....	281,576	202,081	71.77	217,650	164,691	75.67	287,962	21,707	8.10	210,937	11,508	5.46
North Carolina.....	559,764	422,171	75.42	465,268	393,211	84.51	587,682	115,192	19.60	494,683	86,976	17.58
South Carolina.....	395,466	311,423	78.75	324,364	272,015	83.86	406,940	129,431	31.81	343,092	120,087	35.00
Georgia.....	647,922	508,790	78.53	509,830	445,530	87.39	654,286	159,923	24.44	534,010	152,332	28.53
Florida.....	146,867	110,404	75.17	93,475	73,752	78.90	136,383	26,423	19.37	91,175	17,784	19.51
North Central division.....	8,828,083	6,661,149	75.45	6,684,105	5,088,033	76.12	8,081,530	1,012,689	12.53	6,076,736	537,090	8.84
Ohio.....	1,442,430	1,088,609	75.47	1,209,435	881,836	72.91	1,416,229	184,177	13.00	1,189,932	112,539	9.47
Indiana.....	855,368	639,156	74.72	752,405	583,658	77.57	818,660	84,902	10.37	715,690	51,422	7.18
Illinois.....	1,507,159	1,153,249	76.52	1,178,131	893,679	75.86	1,400,512	200,310	14.30	1,091,184	106,101	9.72
Michigan.....	851,163	663,627	77.97	659,101	514,191	78.01	767,872	95,948	12.50	577,585	55,013	9.52
Wisconsin.....	657,968	495,229	75.27	503,434	371,062	73.71	600,422	81,061	13.50	462,278	46,393	10.04
Minnesota.....	523,342	403,461	77.09	307,449	230,043	74.82	439,008	65,625	14.95	252,528	25,077	9.93
Iowa.....	755,134	551,418	73.02	623,675	483,457	77.52	686,174	80,417	11.72	557,966	44,845	8.04
Missouri.....	1,037,994	771,554	74.33	816,962	630,016	77.12	957,644	112,825	11.78	740,669	62,943	8.50
North Dakota.....	74,442	59,956	80.54	a64,343	a54,993	a85.47	55,010	7,815	14.21	a35,506	a2,851	a8.03
South Dakota.....	133,252	102,635	77.02	181,022	142,159	78.53	102,956	11,458	11.13	137,249	10,455	7.62
Nebraska.....	426,815	325,416	76.24	388,148	302,934	78.05	344,844	42,644	12.37	316,149	19,351	6.12
Kansas.....	563,016	406,839	72.26	278,185	230,076	82.71	492,199	45,507	9.25	253,691	30,616	12.07
South Central division.....	3,977,614	2,973,045	74.74	3,069,756	2,492,259	81.19	3,821,873	662,769	17.34	3,006,487	529,914	17.63
Kentucky.....	689,572	506,946	73.52	586,424	465,432	79.37	670,459	83,378	12.44	577,074	54,422	9.43
Tennessee.....	640,677	473,171	73.85	524,559	391,562	74.65	635,954	80,582	12.67	537,571	56,408	10.49
Alabama.....	531,941	411,627	77.38	414,095	368,734	89.05	537,604	129,975	24.18	437,685	124,056	28.34
Mississippi.....	451,788	337,931	74.80	375,561	305,089	81.24	450,240	124,808	27.72	378,132	110,417	29.20
Louisiana.....	394,815	314,293	79.61	322,004	268,176	83.28	399,868	108,781	27.20	327,066	95,052	29.06
Texas.....	830,783	610,193	73.45	568,928	463,190	81.41	733,972	86,015	11.72	495,268	58,943	11.90
Oklahoma.....	25,811	19,849	76.90	278,185	230,076	82.71	18,890	1,057	5.60	253,691	30,616	12.07
Arkansas.....	412,227	299,035	72.54	278,185	230,076	82.71	374,886	48,173	12.85	253,691	30,616	12.07
Western division.....	1,463,627	1,212,068	82.81	866,924	712,111	82.14	936,534	124,425	13.29	500,864	45,208	9.03
Montana.....	75,596	67,587	89.41	24,558	21,748	88.56	32,215	4,636	14.39	7,431	507	6.82
Wyoming.....	32,675	28,736	87.94	11,950	8,420	70.46	15,080	1,894	12.56	4,529	464	10.25
Colorado.....	202,719	172,796	85.24	110,896	96,472	86.99	125,177	19,147	15.30	47,324	4,779	10.10
New Mexico.....	61,885	50,217	81.15	48,266	38,560	79.89	50,656	3,934	7.77	39,700	2,262	5.70
Arizona.....	29,736	24,847	83.56	24,267	21,800	89.83	16,340	1,569	9.60	8,655	471	5.44
Utah.....	79,747	59,825	75.02	50,580	37,168	73.48	67,480	7,076	10.49	46,614	2,887	6.19
Nevada.....	25,370	21,591	85.10	36,211	30,730	84.86	12,855	1,824	14.19	14,455	1,503	10.40
Idaho.....	40,276	33,278	82.62	17,910	15,287	85.35	22,445	1,894	8.44	7,095	291	4.10
Washington.....	179,965	153,581	85.34	36,085	29,059	80.53	95,674	11,115	11.62	19,635	1,063	5.41
Oregon.....	146,406	115,988	79.22	81,031	64,564	79.68	97,968	10,793	11.02	49,534	2,779	5.61
California.....	589,252	483,622	82.07	425,170	348,303	81.92	400,644	60,543	15.11	255,892	28,202	11.02

a Dakota territory.

The variations in the proportion of males engaged in gainful occupations in the different states and territories are due to several causes. In the extreme western states and territories there is relatively but a small proportion of minors, so that the proportion of males 10 years of age and over at work is very much larger than in other states and territories, and this proportion is only partly equaled in the eastern states, where manufacturing pursuits largely predominate and where relatively large numbers of young persons find employment. In the intervening states, north and south, the proportion is large or small, according to the relative influence of the causes stated.

The largest percentage of males 10 years of age and over at work in 1890 was 89.41 in Montana, followed by 87.94 per cent in Wyoming, 85.34 per cent in Washington, 85.24 per cent in Colorado, 85.10 per cent in Nevada, and 83.56 per cent in Arizona. The first eastern state having a large proportion of males occupied was Rhode Island, which in 1890 had 83.24 per cent of its male population 10 years of age and over at work. This was followed by 82.62 per cent in Idaho and 82.07 per cent in California, which were succeeded by 81.99 per cent in New Hampshire and 81.69 per cent in Connecticut, both in the North Atlantic division. New Mexico, in the Western division, came next, with 81.15 per cent, and was closely followed by three eastern states, namely, Massachusetts with 81.07 per cent, New Jersey with 80.81 per cent, and New York with 80.56 per cent. Besides the above, there were only two states in which more than four-fifths of the male population 10 years of age and over in 1890 were engaged in gainful occupations, these being North Dakota with 80.54 per cent and Delaware with 80.13 per cent.

The largest proportion of females at work in 1890 was that for the District of Columbia, the females at work there constituting 32.17 per cent of all females 10 years of age and over, due almost wholly to the employment of women in the departments of the national government. The next largest percentages were 31.81 in South Carolina, 29.26 in Rhode Island, 27.72 in Mississippi, 27.64 in Massachusetts, 27.20 in Louisiana, 24.44 in Georgia, 24.18 in Alabama, 23.10 in New Hampshire, 23.09 in Connecticut, 21.09 in New York, and 20.87 in Maryland. There is no other state or territory in which the females at work constituted one-fifth of the total females 10 years of age and over in 1890. These large proportions are readily accounted for by the employment of women and children in the fields in the southern states and in the mills and workshops in the northern states.

Compared with 1880, the proportion of males at work has increased in all the states of the North Atlantic division, but in the South Atlantic and South Central divisions the only increases in the proportion were in Maryland and the District of Columbia. In the North Central division there has been an increase in the proportion of males at work in Ohio, Illinois, Wisconsin, and Minnesota, and in the Western division in all but four states and territories, namely, Colorado, Arizona, Idaho, and Oregon. The only states which do not show an increase in the proportion of females at work in 1890, as compared with 1880, were South Carolina, Georgia, and Florida, in the South Atlantic division, and Alabama, Mississippi, Louisiana, and Texas, in the South Central division. These losses in the proportion of persons of either sex at work are due in the case of males in the northern and western states to the changing character of the population and the nature of the occupations followed there, and in the southern states to the smaller proportion of young persons at work in 1890 as compared with the proportion reported at the preceding census.

The whole number of persons engaged in agriculture, fisheries, and mining in the United States in 1890 was 9,013,336, or 39.65 per cent of all persons engaged in gainful occupations; the number engaged in professional service was 944,333, or 4.15 per cent; in domestic and personal service, 4,360,577, or 19.18 per cent; in trade and transportation, 3,326,122, or 14.63 per cent, and in manufacturing and mechanical industries, 5,091,293, or 22.39 per cent.

The following statement shows the distribution of the whole number of males and females engaged in gainful occupations in 1880 and 1890, according to the number and percentage in each class of occupations:

CLASSES OF OCCUPATIONS.	1890						1880					
	Both sexes.		Males.		Females.		Both sexes.		Males.		Females.	
	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
All occupations.....	22,735,661	100.00	18,821,090	100.00	3,914,571	100.00	17,392,099	100.00	14,744,942	100.00	2,647,157	100.00
Agriculture, fisheries, and mining.....	9,013,336	39.65	8,333,813	44.28	679,523	17.36	8,004,624	46.03	7,409,970	50.25	594,654	22.46
Professional service.....	944,333	4.15	632,646	3.36	311,687	7.96	603,202	3.47	425,947	2.89	177,255	6.70
Domestic and personal service.....	4,360,577	19.18	2,692,879	14.31	1,667,698	42.60	3,503,443	20.14	2,321,937	15.75	1,181,506	44.63
Trade and transportation.....	3,326,122	14.63	3,097,701	16.46	228,421	5.84	1,866,481	10.73	1,803,629	12.23	62,852	2.38
Manufacturing and mechanical industries.	5,091,293	22.39	4,064,051	21.59	1,027,242	26.24	3,414,349	19.63	2,783,459	18.88	630,890	23.83

In the above table the figures showing the distribution of persons engaged in gainful occupations in 1880, according to the number in each class of occupations, have been readjusted to conform to the classification of

occupations used in the census of 1890, as already explained, and they do not agree, therefore, with the totals given in the printed report of the census of 1880.

As compared with 1880, there has been a loss of more than 6 per cent in the proportion of persons engaged in agriculture, fisheries, and mining in 1890, and a loss of very nearly 1 per cent in the proportion of persons engaged in domestic and personal service, while in each of the other classes of occupations there has been a slight increase. Excluding persons engaged in fishing and mining in 1880 and 1890, the figures show that the percentage of persons engaged in agriculture only has decreased from 44.35 in 1880 to 37.68 in 1890, or a relative loss of 6.67 per cent.

There has been proportionately a similar loss in 1890, as compared with 1880, in the percentage of males and females engaged in agriculture, fisheries, and mining and in domestic and personal service, and an increase in each of the other three classes. The larger percentage of persons engaged in domestic and personal service in 1880 than in 1890 can only be explained by the statement that probably the number of "laborers not specified" in 1880 included very many laborers who should have been more properly credited to agriculture and to manufacturing and mechanical industries, particularly as the census of 1870 also showed a smaller proportion of persons in domestic and personal service as compared with 1880.

STATISTICS OF POPULATION.

The following table gives by states and territories the percentages (derived from the figures given in Table 1) of males and females in each class of occupations, respectively, of total males and females 10 years of age and over engaged in gainful occupations in 1890:

STATES AND TERRITORIES.	PER CENT OF MALES IN EACH CLASS OF OCCUPATIONS OF TOTAL MALES 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS.					PER CENT OF FEMALES IN EACH CLASS OF OCCUPATIONS OF TOTAL FEMALES 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS.				
	Agriculture, fisheries, and mining.	Profes- sional service.	Domestic and personal service.	Trade and trans- portation.	Manufactur- ing and mechanical industries.	Agriculture, fisheries, and mining.	Profes- sional service.	Domestic and personal service.	Trade and trans- portation.	Manufactur- ing and mechanical industries.
The United States.....	44.28	3.36	14.31	16.46	21.59	17.36	7.96	42.60	5.84	26.24
North Atlantic division.....	22.46	3.48	17.08	21.67	35.31	1.46	7.47	40.38	8.08	42.01
Maine.....	40.01	2.83	12.69	16.44	28.03	3.25	14.11	31.47	5.42	45.75
New Hampshire.....	33.13	2.76	11.29	14.34	38.48	1.69	8.96	25.19	3.88	60.28
Vermont.....	51.05	2.78	10.85	12.71	22.61	3.26	16.26	51.35	3.59	25.54
Massachusetts.....	11.15	3.65	13.87	24.23	47.10	0.36	6.46	32.73	8.46	51.99
Rhode Island.....	10.98	3.05	15.68	21.83	48.46	0.44	4.68	26.12	6.23	62.53
Connecticut.....	19.50	3.06	14.32	18.10	45.02	1.07	6.98	34.89	6.90	50.16
New York.....	20.89	3.98	17.05	25.07	33.01	1.67	7.57	44.14	8.91	37.71
New Jersey.....	15.99	3.40	17.70	24.24	38.67	1.27	6.08	43.30	7.81	41.54
Pennsylvania.....	27.33	3.11	20.31	18.21	31.04	1.92	7.45	44.99	8.20	37.44
South Atlantic division.....	60.32	2.75	11.60	11.98	13.35	36.06	3.73	45.12	2.55	12.54
Delaware.....	34.10	2.70	19.12	15.45	28.54	2.97	6.84	57.10	0.90	26.19
Maryland.....	33.28	3.29	17.65	20.49	25.29	3.22	5.23	56.45	6.78	28.32
District of Columbia.....	2.65	8.25	27.75	34.64	26.71	0.18	5.04	64.06	15.53	15.19
Virginia.....	57.24	2.69	13.14	12.72	14.21	15.73	5.39	63.67	1.76	13.45
West Virginia.....	62.66	3.17	9.61	11.00	13.56	15.00	10.43	55.27	3.38	15.92
North Carolina.....	75.49	2.12	6.89	6.68	8.82	48.31	2.89	36.61	0.55	11.64
South Carolina.....	76.93	1.92	7.17	6.75	7.23	68.34	1.72	22.74	0.55	6.65
Georgia.....	68.32	2.34	9.71	10.43	9.20	44.11	2.54	44.68	1.07	7.60
Florida.....	51.10	3.84	17.64	13.25	14.17	37.01	4.56	47.39	1.54	9.50
North Central division.....	47.42	3.55	13.59	16.16	19.28	7.93	13.29	46.80	7.40	24.58
Ohio.....	38.47	3.84	15.93	16.62	25.14	5.54	10.93	44.47	7.93	31.13
Indiana.....	50.41	3.77	13.79	13.62	18.41	9.83	12.27	45.98	6.22	25.70
Illinois.....	38.46	3.58	15.19	19.70	23.07	6.45	10.96	46.40	9.71	26.48
Michigan.....	45.57	3.08	16.11	14.46	20.78	6.36	13.60	47.21	7.59	25.24
Wisconsin.....	47.69	2.73	14.78	12.89	21.91	7.32	13.24	47.87	5.91	25.66
Minnesota.....	47.49	3.48	14.37	16.90	17.76	5.83	13.27	55.95	6.51	18.44
Iowa.....	58.45	3.44	9.60	15.17	13.34	10.06	23.38	41.06	5.51	19.99
Missouri.....	50.84	3.62	11.80	17.12	16.62	11.01	10.19	49.89	7.06	21.85
North Dakota.....	71.94	3.24	7.35	10.85	6.62	10.54	14.24	62.38	2.23	10.61
South Dakota.....	67.65	3.52	8.02	12.14	8.67	12.31	20.79	49.56	3.39	13.95
Nebraska.....	51.35	3.78	11.91	18.24	14.72	8.11	16.99	48.14	8.27	18.49
Kansas.....	61.42	4.14	8.66	14.45	11.33	14.75	18.90	41.36	6.16	18.83
South Central division.....	68.05	2.92	9.71	10.24	9.08	48.87	4.13	37.29	1.65	8.06
Kentucky.....	61.98	3.18	10.25	11.43	13.16	14.24	7.21	55.54	3.84	19.17
Tennessee.....	66.16	3.17	9.19	11.02	10.46	29.55	5.54	51.95	2.21	10.75
Alabama.....	72.85	2.23	8.46	8.60	7.86	62.31	2.13	29.73	0.71	5.12
Mississippi.....	80.11	2.24	6.36	6.46	4.83	71.60	2.62	22.65	0.49	2.64
Louisiana.....	58.95	2.29	16.30	12.24	10.22	50.99	2.61	35.71	1.93	8.76
Texas.....	65.25	3.64	10.40	12.33	8.38	39.73	6.86	43.26	2.12	8.03
Oklahoma.....	68.60	4.25	6.77	10.20	10.18	29.42	16.46	35.38	4.74	14.00
Arkansas.....	76.39	2.93	6.94	7.15	6.59	57.97	3.98	32.44	1.01	4.60
Western division.....	36.28	4.08	22.29	18.53	18.82	5.63	14.05	48.40	7.62	24.30
Montana.....	37.86	3.39	26.12	16.60	16.03	4.23	13.07	57.87	4.83	20.00
Wyoming.....	38.72	3.32	24.95	18.00	15.01	3.85	13.20	61.51	4.54	16.90
Colorado.....	33.88	4.32	18.90	22.44	20.46	3.63	12.39	53.77	9.19	21.02
New Mexico.....	52.15	2.77	28.54	9.76	6.78	10.70	8.29	64.08	1.93	15.00
Arizona.....	41.96	3.73	29.67	14.92	9.72	6.44	10.64	60.62	2.10	20.20
Utah.....	39.30	3.57	20.12	17.63	19.38	8.10	10.01	49.43	7.63	24.83
Nevada.....	48.19	3.88	20.96	15.06	12.41	7.24	18.09	50.66	3.12	20.89
Idaho.....	55.93	3.02	17.39	12.84	10.82	10.67	15.36	49.10	4.49	20.38
Washington.....	30.79	4.30	23.89	18.51	22.51	5.87	14.54	50.37	7.60	21.62
Oregon.....	43.18	4.32	18.83	15.98	17.69	8.34	17.78	43.50	7.77	22.61
California.....	32.67	4.32	22.77	19.82	20.42	5.04	14.69	44.53	8.16	27.58

In Massachusetts, Rhode Island, and Connecticut the males engaged in manufacturing and mechanical industries in 1890 constituted very nearly one-half of all males in gainful occupations, the exact percentages being 47.10 for Massachusetts, 48.46 for Rhode Island, and 45.02 for Connecticut. In New Hampshire the males in manufacturing and mechanical industries constituted 38.48 per cent and in New Jersey the same class constituted 38.67 per cent, while in New York they constituted 33.01 per cent and in Pennsylvania 31.04 per cent. In 24 states and territories in 1890 the males engaged in agriculture, fisheries, and mining constituted more than one-half of all males in gainful occupations, in the order named, the percentage following the name of the state in each case: Mississippi, 80.11; South Carolina, 76.93; Arkansas, 76.39; North Carolina, 75.49; Alabama, 72.85; North Dakota, 71.94; Oklahoma, 68.60; Georgia, 68.32; South Dakota, 67.65; Tennessee, 66.16; Texas, 65.25; West Virginia, 62.66; Kentucky, 61.98; Kansas, 61.42; Louisiana, 58.95; Iowa, 58.45; Virginia, 57.24; Idaho, 55.93; New Mexico, 52.15; Nebraska, 51.35; Florida, 51.10; Vermont, 51.05; Missouri, 50.84; Indiana, 50.41. These states and territories comprise all in the South Central division, all but Delaware, Maryland, and the District of Columbia in the South Atlantic division, and all but Ohio, Illinois, Michigan, Wisconsin, and Minnesota in the North Central division. In the North Atlantic division there was but one state, Vermont, and in the Western division but one state, Idaho, and one territory, New Mexico, in which the males engaged in agriculture, fisheries, and mining constituted more than 50 per cent of all males at work.

Of the females engaged in gainful occupations in 1890, by far the greater proportion were found in domestic and personal service in a large majority of the states and territories. This was not the case in several states of the North Atlantic division, where those engaged in manufacturing and mechanical industries constituted the larger percentage of all females at work. Of these states the largest percentage of females in manufacturing and mechanical industries was 62.53 in Rhode Island, followed by 60.28 per cent in New Hampshire, 51.99 per cent in Massachusetts, 50.16 per cent in Connecticut, and 45.75 per cent in Maine. In the same way, in a few of the southern states the larger percentage of females were engaged in agriculture, fisheries, and mining, as follows: 71.60 per cent in Mississippi, 68.34 per cent in South Carolina, 62.31 per cent in Alabama, 57.97 per cent in Arkansas, 50.99 per cent in Louisiana, and 48.31 per cent in North Carolina.

Of the whole number of persons engaged in gainful occupations in 1890, the males constituted 82.78 per cent and the females 17.22 per cent. The following statement shows the percentage of males and females in each class of occupations in 1890:

CLASSES OF OCCUPATIONS.	Males.	Females.
	<i>Per cent.</i>	<i>Per cent.</i>
All occupations.....	82.78	17.22
Agriculture, fisheries, and mining.....	92.46	7.54
Professional service.....	66.99	33.01
Domestic and personal service.....	61.76	38.24
Trade and transportation.....	93.13	6.87
Manufacturing and mechanical industries.....	79.82	20.18

The following table shows the number and percentage of increase in persons of each sex engaged in gainful occupations and in each class of occupations since 1880:

SEX AND CLASSES OF OCCUPATIONS.	INCREASE FROM 1880 TO 1890.		SEX AND CLASSES OF OCCUPATIONS.	INCREASE FROM 1880 TO 1890.	
	Number.	Per cent.		Number.	Per cent.
All occupations	5,343,562	30.72	Domestic and personal service	857,134	24.47
Males	4,076,148	27.64	Males	370,942	15.98
Females.....	1,267,414	47.88	Females.....	486,192	41.15
Agriculture, fisheries, and mining	1,008,712	12.60	Trade and transportation	1,459,641	78.20
Males	923,843	12.47	Males	1,294,072	71.75
Females.....	84,869	14.27	Females.....	165,569	263.43
Professional service.....	341,131	56.55	Manufacturing and mechanical industries	1,676,944	49.11
Males	206,699	48.53	Males	1,280,592	46.01
Females.....	134,432	75.84	Females.....	396,352	62.82

As shown by the above table, there has been an increase since 1880 of 5,343,562 persons engaged in gainful occupations, or 30.72 per cent. This shows a slightly larger percentage of increase of persons engaged

STATISTICS OF POPULATION.

NUMBER OF PERSONS IN THE UNITED STATES 10 YEARS OF AGE AND OVER IN 1870, 1880, AND 1890 ENGAGED IN EACH SPECIFIED OCCUPATION, CLASSIFIED BY SEX—Continued.

OCCUPATIONS.	BOTH SEXES.			MALES.			FEMALES.		
	1890	1880	1870	1890	1880	1870	1890	1880	1870
Trade and transportation—Continued.									
Packers and shippers	24,946	9,342	5,461	18,428	8,810	5,266	6,520	532	195
Pilots	4,259	3,770	3,649	4,258	3,770	3,648	1	.....	1
Porters and helpers (in stores and warehouses).....	24,356	32,102	16,631	24,002	29,938	16,631	354	2,254	.....
Sailors	55,899	60,070	56,663	55,882	60,070	56,663	17	.....	.....
Steam railroad employes (a).....	462,213	236,058	154,027	460,771	235,611	153,965	1,442	447	62
Street railway employes.....	37,434	b11,687	5,103	37,423	b11,683	5,102	11	b4	1
Telegraph and telephone operators.....	52,214	b23,166	8,516	43,740	b21,891	7,961	8,474	b1,275	355
Telegraph and telephone linemen and electric light and power company employes.....	11,134	.....	.....	10,405	.....	.....	669	.....	.....
Undertakers	9,891	5,113	1,996	9,808	5,058	1,976	83	55	20
Weighers, gaugers, and measurers.....	3,860	3,302	926	3,842	3,291	923	18	11	3
Other persons in trade and transportation.....	3,883	c47,162	c36,346	3,080	c45,632	c35,738	803	c1,530	c608
Manufacturing and mechanical industries.....	5,091,293	3,414,349	2,452,243	4,064,051	2,783,459	2,098,246	1,027,242	630,890	353,997
Agricultural implement makers (not otherwise classified).	3,755	4,891	3,811	3,731	4,879	3,786	24	12	25
Apprentices.....	82,457	44,170	17,891	74,455	40,313	17,134	8,662	3,857	257
Artificial flower makers.....	3,046	3,399	1,169	503	512	218	2,543	2,887	951
Bakers	60,197	41,309	27,680	57,910	40,246	27,442	2,287	1,063	238
Basket makers.....	5,225	5,654	3,297	4,514	5,058	3,082	711	596	215
Blacksmiths	205,337	172,726	142,075	205,279	172,726	142,075	58	.....	.....
Bleachers, dyers, and scourers.....	14,210	8,222	4,901	12,503	7,573	4,582	1,707	649	319
Bone and ivory workers.....	1,691	1,888	901	1,469	1,717	803	222	171	98
Bookbinders	23,858	13,833	9,104	12,298	8,342	6,375	11,560	5,491	2,729
Boot and shoe makers and repairers.....	213,544	194,079	171,127	179,867	173,072	161,485	33,677	21,007	9,642
Bottlers and mineral and soda water makers.....	7,230	2,081	458	6,681	2,012	453	549	69	5
Box makers	28,640	15,762	6,080	14,286	8,632	3,857	14,354	7,130	2,223
Brass workers (not otherwise specified).....	17,265	11,568	4,863	16,352	10,831	4,757	913	737	106
Brewers and maltsters.....	20,862	16,278	11,246	20,294	16,217	11,238	68	61	8
Brick and tile makers and terra cotta workers.....	60,214	36,052	26,070	60,070	35,984	25,996	144	68	74
Britannia workers.....	904	1,375	1,092	787	1,261	987	117	114	105
Broom and brush makers.....	10,115	8,479	5,816	8,949	7,837	5,299	1,166	642	517
Builders and contractors.....	45,988	14,597	10,231	45,978	14,586	10,228	10	11	3
Butchers	105,456	76,241	44,354	105,339	76,241	44,354	117	.....	.....
Butter and cheese makers.....	11,211	d4,570	d3,534	10,808	d4,230	d2,750	403	d340	d784
Button makers.....	2,601	4,872	1,272	1,011	2,480	736	1,590	2,392	536
Cabinet makers.....	35,915	50,654	42,835	35,891	50,174	42,123	24	480	712
Candle, soap, and tallow makers.....	3,450	2,923	1,942	3,051	2,718	1,900	399	205	42
Carpenters and joiners.....	611,482	373,143	344,596	611,293	373,143	344,596	189	.....	.....
Carpenter makers.....	22,302	17,068	15,669	11,546	9,962	10,292	10,756	7,106	5,377
Carriage and wagon makers (not otherwise classified).....	34,538	49,881	42,464	34,308	49,743	42,432	230	138	32
Charcoal, coke, and lime burners.....	8,704	e5,851	e3,834	8,689	e5,851	e3,829	15	.....	e5
Chemical works employes.....	2,923	.....	.....	2,613	2,509	.....	1,015	414	.....
Clock and watch makers and repairers.....	25,252	13,820	f1,779	20,556	12,002	f1,704	4,696	1,818	f75
Confectioners	23,251	13,692	8,219	17,577	11,892	7,607	5,674	1,800	612
Coopers	47,486	53,199	43,647	47,438	53,199	43,614	48	.....	33
Copper workers.....	3,384	2,342	2,122	3,377	2,326	2,118	7	16	4
Corset makers.....	6,533	4,660	.....	733	795	.....	5,800	3,865	.....
Cotton mill operatives.....	173,142	169,771	111,606	80,177	78,292	47,208	92,965	91,479	64,398
Distillers and rectifiers.....	3,314	3,245	2,874	3,305	3,237	2,868	9	8	6
Door, sash, and blind makers.....	5,041	4,946	5,155	5,031	4,946	5,155	10	.....	.....
Dressmakers, milliners, and seamstresses.....	499,690	286,981	g93,520	5,232	4,437	g2,659	494,458	282,544	g90,861
Electroplaters.....	2,756	.....	.....	2,644	.....	.....	112	.....	.....
Engravers.....	8,320	4,577	4,226	8,017	4,474	4,197	303	103	29
Fertilizer makers.....	732	1,383	316	726	1,371	310	6	12	6
Gas works employes.....	5,224	4,695	2,086	5,219	4,680	2,082	5	15	4
Glass workers.....	34,282	17,934	9,518	32,572	17,370	9,345	1,710	564	173
Glove makers.....	6,416	4,511	2,329	2,741	2,558	1,110	3,675	1,953	1,219
Gold and silver workers.....	20,263	h28,405	h18,508	16,814	h26,438	h17,279	3,349	h1,967	h1,229
Gunsmiths, locksmiths, and bell hangers.....	9,158	10,572	8,184	9,069	10,377	8,151	89	195	33
Hair workers.....	1,254	1,965	1,026	684	966	570	570	999	456
Harness and saddle makers and repairers.....	43,480	39,860	33,426	42,647	38,409	33,258	833	1,551	168
Hat and cap makers.....	24,013	16,860	12,625	17,819	13,004	9,275	6,694	3,856	3,350
Hosiery and knitting mill operatives.....	29,558	12,194	3,653	8,745	4,334	1,664	20,810	7,860	1,989
Iron and steel workers.....	144,921	116,927	87,098	142,585	115,960	86,195	2,336	967	903
Lace and embroidery makers.....	5,256	i1,708	.....	821	i254	.....	4,435	i1,454	.....
Lead and zinc workers.....	4,016	2,105	649	4,413	2,105	556	203	.....	98
Leather curriers, dressers, finishers, and tanners.....	39,332	29,842	30,726	39,040	29,642	30,641	292	200	85
Machinists	177,090	101,130	54,755	176,951	101,130	54,755	139	.....	.....
Manufacturers and officials of manufacturing companies.....	101,610	k52,217	45,021	101,280	k51,791	44,828	330	k426	199

a Includes locomotive engineers and firemen.

b Estimated.

c Includes steamboat men and women, and employes of banks and of express, insurance, and other companies (not clerks); employes partly estimated.

d Cheese makers.

e Charcoal and lime burners.

f Clock makers.

g Seamstresses included with "Tailors and tailoresses".

h Includes jewelers.

i Lace makers.

k Includes officials of mining companies.

OCCUPATIONS.

13

NUMBER OF PERSONS IN THE UNITED STATES 10 YEARS OF AGE AND OVER IN 1870, 1880, AND 1890 ENGAGED IN EACH SPECIFIED OCCUPATION, CLASSIFIED BY SEX—Continued.

OCCUPATIONS.	BOTH SEXES.			MALES.			FEMALES.		
	1890	1880	1870	1890	1880	1870	1890	1880	1870
Manufacturing and mechanical industries—Continued.									
Marble and stone cutters.....	61,070	32,842	25,831	61,012	32,842	25,831	58	.....	.....
Masons (brick and stone).....	158,918	102,473	89,710	158,878	102,473	89,710	40	.....	.....
Meat, fish, and fruit packers, canners, and preservers.....	7,109	6,296	2,377	5,503	5,132	1,830	1,606	1,164	538
Mechanics (not otherwise specified).....	15,485	7,858	16,514	15,472	7,853	13,955	13	5	2,559
Metal workers (not otherwise specified).....	16,694	.....	79	15,837	.....	67	857	.....	12
Mill and factory operatives (not specified).....	93,596	39,632	44,806	51,603	26,064	35,258	41,993	13,568	9,548
Millers (flour and grist).....	52,841	53,440	41,582	52,747	53,363	41,343	94	77	239
Model and pattern makers.....	10,300	a5,822	a3,970	10,159	a5,822	a3,970	141	.....	.....
Molders.....	66,289	.....	.....	66,243	.....	.....	46	.....	.....
Nail and tack makers.....	4,583	5,803	.....	4,106	5,429	.....	477	374	.....
Oil well employés.....	9,147	7,340	3,803	9,137	7,340	3,802	10	.....	1
Oil works employés.....	5,624	3,929	1,747	5,587	3,897	1,708	37	32	39
Painters, glaziers, and varnishers.....	219,912	130,319	86,657	218,646	129,993	86,569	1,266	326	88
Paper hangers.....	12,369	5,013	2,490	12,315	4,859	2,471	54	154	19
Paper mill operatives.....	27,817	21,430	12,469	18,856	14,711	8,585	8,961	6,719	3,984
Photographers.....	20,040	9,990	7,558	17,839	9,539	7,330	2,201	451	228
Piano and organ makers and tuners, etc.....	15,335	7,850	8,579	14,996	7,749	3,567	339	101	12
Plasterers.....	39,002	22,083	23,800	38,987	22,083	23,799	15	.....	1
Plumbers and gas and steam fitters.....	56,607	19,383	11,143	56,563	19,383	11,143	44	.....	.....
Potters.....	14,928	7,233	5,060	12,939	6,644	4,948	1,089	589	112
Powder and cartridge makers.....	1,385	.....	761	963	.....	665	422	.....	96
Printers, lithographers, pressmen, etc. (b).....	118,424	72,726	40,424	106,365	69,270	38,920	12,059	3,456	1,504
Print works operatives.....	6,701	5,419	3,738	5,162	4,318	2,786	1,539	1,101	952
Publishers of books, maps, and newspapers.....	6,284	2,781	1,577	6,210	2,745	1,577	74	36	.....
Roofers and slaters.....	7,043	4,026	2,750	7,040	4,026	2,750	3	.....	.....
Rope and cordage makers.....	8,001	3,514	2,675	4,896	3,040	2,345	3,105	474	330
Rubber factory operatives.....	16,162	6,350	3,886	9,706	4,292	2,035	6,456	2,058	1,851
Sail, awning, and tent makers.....	3,257	2,050	2,309	3,006	2,843	2,278	251	107	31
Salt works employés.....	1,765	1,431	1,721	1,662	1,390	1,721	103	41	.....
Saw and planing mill employés.....	133,637	87,411	58,025	133,355	87,370	57,906	282	41	119
Sewing machine makers (not otherwise classified)...	880	2,725	3,881	850	2,664	2,015	30	61	1,866
Sewing machine operators.....	7,126	7,505	3,042	1,104	1,700	182	6,022	5,805	2,860
Ship and boat builders.....	22,951	19,515	23,175	22,948	19,515	23,159	■	.....	16
Shirt, collar, and cuff makers.....	21,107	11,823	4,080	5,132	3,163	1,268	15,975	8,660	2,812
Silk mill operatives.....	34,855	18,071	3,256	14,192	8,860	954	20,663	9,211	2,302
Starch makers.....	745	1,385	229	566	1,218	189	180	167	40
Steam boiler makers.....	21,339	12,771	6,958	21,333	12,771	6,953	6	.....	5
Stove, furnace, and grate makers.....	8,932	3,341	1,543	8,912	3,341	1,543	20	.....	.....
Straw workers.....	3,666	4,229	2,029	1,243	1,531	599	2,423	2,698	1,430
Sugar makers and refiners.....	2,616	2,327	1,609	2,612	2,313	1,599	4	14	10
Tailors and tailoresses.....	185,400	133,756	c161,820	121,591	81,658	c64,613	63,809	52,098	c97,207
Tinners and tinware makers.....	55,488	42,818	30,524	54,589	41,781	30,507	899	1,037	17
Tobacco and cigar factory operatives.....	111,625	77,045	40,271	83,634	66,177	38,137	27,991	10,868	4,134
Tool and outlery makers (not otherwise classified)...	17,985	15,588	6,764	17,449	15,031	6,656	536	557	108
Trunk, valise, leather-case, and pocket-book makers...	6,279	4,410	2,047	5,458	4,031	1,970	821	379	77
Umbrella and parasol makers.....	3,403	1,967	1,439	1,465	1,094	749	1,938	873	690
Upholsterers.....	25,666	10,443	6,111	26,918	9,901	5,905	1,748	542	206
Well borers.....	4,854	.....	.....	4,853	.....	.....	1	.....	.....
Wheelwrights.....	12,856	15,592	20,942	12,855	15,592	20,942	1	.....	.....
Whitewashers.....	3,996	3,316	2,873	3,987	3,301	2,482	9	15	391
Wire workers.....	12,319	7,170	2,796	11,238	6,925	1,961	1,081	245	835
Wood workers (not otherwise specified).....	67,360	16,833	10,789	63,600	16,527	10,715	3,760	306	74
Woolen mill operatives.....	84,109	88,010	58,836	47,638	52,504	36,060	36,471	35,506	22,776
Other persons in manufacturing and mechanical industries.....	76,714	54,235	25,308	60,806	42,553	22,252	15,908	11,682	3,056

a Pattern makers.

b Includes compositors and electrotypers and stereotypers.

c Tailors, tailoresses, and seamstresses.

STATISTICS OF POPULATION.

NUMBER OF PERSONS IN THE UNITED STATES 16 YEARS OF AGE AND OVER IN 1870 AND 1880 AND 15 YEARS OF AGE AND OVER IN 1890 ENGAGED IN EACH SPECIFIED OCCUPATION, CLASSIFIED BY SEX.

OCCUPATIONS.	BOTH SEXES.			MALES.			FEMALES.		
	1890	1880	1870	1890	1880	1870	1890	1880	1870
All occupations	22, 132, 648	16, 273, 743	11, 766, 759	18, 420, 504	13, 919, 755	10, 121, 571	3, 712, 144	2, 353, 988	1, 645, 188
Agriculture, fisheries, and mining.	8, 673, 389	7, 270, 284	5, 636, 728	8, 077, 683	6, 811, 510	5, 312, 886	595, 706	458, 774	323, 842
Agricultural laborers	2, 679, 953	2, 607, 709	2, 386, 522	2, 316, 399	2, 208, 400	2, 086, 359	363, 554	399, 309	300, 163
Apiarists	1, 768	1, 013	136	1, 723	996	136	45	17	.....
Dairymen and dairywomen	17, 660	8, 758	3, 550	15, 079	8, 102	3, 133	1, 681	656	417
Farmers, planters, and overseers	5, 281, 557	4, 229, 050	2, 981, 320	5, 055, 130	4, 172, 048	2, 958, 639	226, 427	57, 002	22, 681
Fishermen and oystermen	59, 431	40, 520	26, 279	50, 178	40, 468	26, 246	253	61	33
Gardeners, florists, nurserymen, and vine growers	72, 188	54, 759	33, 632	69, 820	53, 385	33, 353	2, 368	1, 374	279
Lumbermen and raftsmen	65, 693	30, 497	17, 704	65, 666	30, 497	17, 704	27	.....	.....
Miners	339, 231	223, 070	148, 583	338, 938	223, 005	148, 565	293	65	18
Quarrymen	36, 916	13, 839	13, 041	36, 890	13, 839	13, 041	26	.....	.....
Stock raisers, herders, and drovers	68, 389	41, 172	15, 359	67, 748	40, 994	15, 284	641	178	75
Wood choppers	33, 297	12, 585	8, 208	33, 270	12, 585	8, 208	27	.....	.....
Other agricultural pursuits	17, 306	7, 303	2, 394	16, 942	7, 191	2, 218	364	112	176
Professional service.	943, 425	602, 278	370, 641	632, 184	425, 669	278, 727	311, 241	176, 609	91, 914
Actors	9, 633	4, 749	2, 028	5, 755	2, 974	1, 353	3, 878	1, 775	675
Architects	8, 070	3, 375	2, 017	8, 048	3, 358	2, 016	22	17	1
Artists and teachers of art	22, 405	9, 067	4, 074	11, 630	7, 014	3, 662	10, 775	2, 053	412
Authors and literary and scientific persons	6, 714	1, 130	878	3, 989	811	819	2, 725	319	159
Chemists, assayers, and metallurgists	4, 503	1, 967	772	4, 464	1, 919	772	39	48	.....
Clergymen	88, 203	64, 698	43, 874	87, 060	64, 533	43, 807	1, 143	165	67
Dentists	17, 498	12, 314	7, 839	17, 161	12, 253	7, 815	337	61	24
Designers, draftsmen, and inventors	9, 371	2, 812	1, 283	9, 066	2, 757	1, 270	305	55	13
Engineers (civil, mechanical, electrical, and mining) and surveyors	43, 197	8, 259	7, 370	43, 073	8, 259	7, 370	124	.....	.....
Journalists	21, 849	12, 308	5, 286	20, 961	12, 020	5, 251	888	288	35
Lawyers	89, 630	64, 137	40, 736	89, 422	64, 062	40, 731	208	75	5
Musicians and teachers of music	61, 948	30, 287	15, 945	57, 513	27, 184	10, 212	34, 435	13, 103	5, 738
Officers of United States army and navy	2, 926	2, 600	2, 286	2, 926	2, 600	2, 286	.....	.....	.....
Officials (government)	79, 664	67, 061	44, 743	74, 789	64, 909	44, 329	4, 875	2, 172	414
Physicians and surgeons	104, 805	85, 671	62, 448	100, 248	83, 239	61, 921	4, 557	2, 432	527
Professors and teachers	347, 087	a227, 113	126, 486	101, 248	a73, 243	42, 739	245, 839	a153, 870	83, 747
Theatrical managers, showmen, etc.	17, 862	2, 586	1, 161	17, 249	2, 404	1, 067	613	176	94
Veterinary surgeons	6, 494	2, 130	1, 166	6, 492	2, 130	1, 166	2	.....	.....
Other professional service	1, 566	(b)	149	1, 090	(b)	141	476	(b)	8
Domestic and personal service.	4, 232, 569	3, 278, 469	2, 167, 162	2, 642, 382	2, 203, 775	1, 284, 754	1, 590, 187	1, 074, 694	882, 408
Barbers and hairdressers	84, 403	44, 278	23, 620	81, 624	41, 478	22, 497	2, 779	2, 800	1, 123
Boarding and lodging house keepers	44, 349	19, 058	12, 785	11, 756	6, 745	5, 725	32, 593	12, 313	7, 060
Engineers and firemen (not locomotive)	139, 601	79, 537	34, 200	139, 554	79, 537	34, 200	47	.....	.....
Hotel keepers	44, 076	32, 453	26, 394	38, 800	30, 317	25, 529	5, 276	2, 136	865
Hunters, trappers, guides, and scouts	2, 505	1, 912	1, 095	2, 489	1, 912	1, 093	16	.....	2
Janitors	21, 511	6, 747	1, 750	18, 736	6, 050	1, 614	2, 775	697	145
Laborers (not specified)	1, 877, 889	1, 761, 126	1, 014, 175	1, 827, 568	1, 709, 683	995, 498	50, 321	51, 443	18, 677
Launderers and laundresses	246, 739	120, 700	60, 358	31, 618	13, 564	5, 140	215, 121	107, 136	55, 218
Nurses and midwives	47, 586	15, 260	12, 162	6, 190	1, 163	806	41, 396	14, 097	11, 356
Restaurant and saloon keepers and bartenders	146, 321	82, 804	50, 600	141, 484	80, 608	49, 886	4, 837	2, 196	714
Servants (c)	1, 458, 023	1, 036, 311	889, 993	226, 679	159, 934	103, 358	1, 231, 344	876, 377	786, 635
Sextons	4, 970	2, 444	1, 151	4, 942	2, 430	1, 144	38	.....	.....
Soldiers, sailors, and marines (United States)	27, 919	24, 141	23, 330	27, 919	24, 141	23, 330	.....	14	7
Watchmen, policemen, and detectives	74, 568	d13, 371	.....	74, 289	d13, 357	.....	279	d14	.....
Other domestic and personal service	12, 109	e38, 327	15, 540	8, 734	e32, 856	14, 934	3, 375	e5, 471	606
Trade and transportation	3, 281, 796	1, 827, 968	1, 210, 871	3, 058, 593	1, 768, 129	1, 192, 215	223, 203	59, 839	12, 656
Agents (claim, commission, real estate, insurance, etc.) and collectors	174, 341	33, 865	20, 297	169, 488	33, 450	20, 201	4, 853	415	96
Auctioneers	3, 205	2, 331	2, 268	3, 203	2, 328	2, 254	2	3	12
Bankers and brokers (f)	35, 968	19, 373	11, 012	35, 458	19, 240	10, 992	510	133	20
Boatmen and canalmen	16, 447	24, 095	27, 623	16, 414	24, 038	27, 594	33	57	29
Bookkeepers, clerks, and salesmen (g)	1, 000, 537	518, 720	303, 023	831, 729	482, 560	293, 041	168, 808	36, 160	9, 082
Commercial travelers	58, 691	28, 135	7, 258	58, 080	27, 864	7, 226	611	271	32
Draymen, hackmen, teamsters, etc.	365, 274	175, 625	119, 329	365, 053	175, 625	119, 250	221	.....	79
Foremen and overseers	36, 084	.....	.....	35, 109	.....	.....	975	.....	.....
Hostlers	53, 403	31, 072	17, 150	53, 381	31, 072	17, 149	22	.....	1
Hucksters and peddlers	58, 091	52, 522	33, 993	55, 909	50, 102	32, 530	2, 182	2, 420	1, 403
Livery stable keepers	26, 757	14, 213	8, 504	26, 710	14, 180	8, 493	47	33	11
Merchants and dealers	690, 658	479, 306	356, 838	665, 178	464, 565	351, 187	25, 480	14, 741	5, 651
Messengers and errand and office boys	31, 751	5, 570	4, 624	30, 368	5, 521	4, 603	1, 383	49	21
Newspaper carriers and newsboys	4, 017	2, 428	1, 354	3, 960	2, 357	1, 350	57	71	4
Officials of banks and of insurance, trade, transportation, trust, and other companies	39, 900	h15, 553	10, 599	39, 683	h15, 553	10, 531	217	.....	68

a Teachers and scientific persons.

b Included with "Other domestic and personal service".

c Includes housekeepers and stewards.

d Watchmen (private) and detectives.

e Includes employees of government (not clerks).

f Includes commercial brokers.

g Includes stenographers and typewriters.

h Partly estimated.

NUMBER OF PERSONS IN THE UNITED STATES 16 YEARS OF AGE AND OVER IN 1870 AND 1880 AND 15 YEARS OF AGE AND OVER IN 1890 ENGAGED IN EACH SPECIFIED OCCUPATION, CLASSIFIED BY SEX—Continued.

OCCUPATIONS.	BOTH SEXES.			MALES.			FEMALES.		
	1890	1880	1870	1890	1880	1870	1890	1880	1870
Trade and transportation—Continued.									
Packers and shippers	24,235	9,180	5,416	18,088	8,703	5,237	6,147	477	179
Pilots	4,259	3,769	3,045	4,258	3,769	3,644	1	.....	1
Porters and helpers (in stores and warehouses)	23,569	29,083	16,345	23,254	27,176	16,345	315	1,857	.....
Sailors	55,784	59,720	56,351	55,767	59,720	56,351	17	.....	.....
Steam railroad employes (a)	461,028	235,156	153,153	459,616	234,736	153,091	1,412	420	62
Street railway employes	37,347	611,656	5,077	37,336	611,652	5,076	11	64	1
Telegraph and telephone operators	51,895	621,610	8,056	43,492	620,386	7,706	8,403	61,224	350
Telegraph and telephone linemen and electric light and power company employes	11,037	.....	.....	10,387	.....	.....	650	.....	.....
Undertakers	9,891	5,108	1,996	9,808	5,054	1,976	83	54	20
Weighers, gaugers, and measurers	3,846	3,294	926	3,828	3,283	923	18	11	3
Other persons in trade and transportation	3,781	646,634	636,036	3,036	645,195	635,465	745	61,439	6571
Manufacturing and mechanical industries	5,001,469	3,294,744	2,381,357	4,009,662	2,710,672	2,052,989	991,807	584,072	328,368
Agricultural implement makers (not otherwise classified)	3,710	4,787	3,743	3,687	4,776	3,727	23	11	18
Apprentices	73,399	35,670	14,790	66,765	33,052	14,644	6,634	2,618	140
Artificial flower makers	2,694	2,630	907	471	472	211	2,223	2,158	696
Bakers	59,692	40,657	27,143	57,441	39,641	26,924	2,251	1,016	219
Basket makers	5,050	5,386	3,197	4,371	4,823	2,996	679	563	201
Blacksmiths	205,028	172,170	141,469	204,972	172,170	141,469	56	.....	.....
Bleachers, dyers, and scourers	13,985	7,989	4,760	12,327	7,372	4,460	1,658	617	300
Bone and ivory workers	1,673	1,838	853	1,456	1,676	763	217	162	90
Bookbinders	23,318	13,073	8,656	12,047	7,987	6,142	11,271	5,086	2,514
Boot and shoe makers and repairers	211,424	190,426	168,799	178,572	170,596	159,694	32,922	19,830	9,105
Bottlers and mineral and soda water makers	6,982	1,971	415	6,475	1,909	410	507	62	5
Box makers	27,060	14,032	5,480	13,506	7,024	3,571	13,554	6,108	1,909
Brass workers (not otherwise specified)	17,061	11,081	4,764	16,129	10,435	4,669	872	646	95
Brewers and maltsters	20,252	16,149	11,201	20,191	16,089	11,193	61	60	8
Brick and tile makers and terra cotta workers	58,241	34,445	24,614	58,115	34,383	24,565	126	62	49
Britannia workers	897	1,335	1,075	781	1,229	971	116	106	104
Broom and brush makers	9,686	7,891	5,527	8,603	7,373	5,117	1,083	518	410
Builders and contractors	45,988	14,586	10,231	45,978	14,575	10,228	10	11	3
Butchers	104,951	75,673	44,016	104,834	75,673	44,016	117	.....	.....
Butter and cheese makers	11,148	64,518	63,484	10,749	64,181	62,720	399	6337	6764
Button makers	2,493	4,217	1,089	969	2,146	640	1,524	2,071	449
Cabinet makers	35,780	49,039	41,949	35,756	48,649	41,870	24	390	579
Candle, soap, and tallow makers	3,280	2,723	1,862	2,907	2,552	1,630	373	171	32
Carpenters and joiners	611,025	372,683	343,732	610,836	372,683	343,732	189	.....	.....
Carpet makers	21,625	15,774	15,147	11,190	9,308	10,029	10,452	6,466	5,118
Carriage and wagon makers (not otherwise classified)	34,455	40,463	42,256	34,233	49,331	42,225	222	132	31
Charcoal, coke, and lime burners	8,569	65,785	63,805	8,555	65,785	63,801	14	.....	64
Chemical works employes	3,570	2,805	.....	2,585	2,434	.....	985	371	.....
Clock and watch makers and repairers	25,072	13,448	11,726	20,422	11,716	11,658	4,650	1,732	1,689
Confectioners	22,721	13,400	8,135	17,393	11,723	7,544	5,328	1,677	591
Coopers	47,134	52,189	43,174	47,089	52,189	43,146	45	.....	28
Copper workers	3,352	2,310	2,109	3,346	2,294	2,106	6	16	3
Corset makers	6,309	4,205	.....	700	714	.....	5,609	3,491	.....
Cotton mill operatives	156,102	141,765	91,660	71,882	65,177	37,433	84,220	76,588	54,227
Distillers and rectifiers	3,301	3,220	2,874	3,292	3,212	2,868	9	8	6
Door, sash, and blind makers	4,961	4,802	5,053	4,952	4,802	5,053	9	.....	.....
Dressmakers, milliners, and seamstresses	494,696	282,149	991,722	5,103	4,307	62,629	489,593	277,842	989,093
Electroplaters	2,702	.....	.....	2,595	.....	.....	107	.....	.....
Engravers	8,263	4,512	4,178	7,963	4,411	4,150	300	101	28
Fertilizer makers	726	1,363	314	720	1,356	308	6	7	6
Gas works employes	5,191	4,630	2,060	5,186	4,615	2,056	5	15	4
Glass workers	31,727	15,527	8,268	30,150	15,057	8,112	1,577	470	158
Glove makers	6,327	4,358	2,207	2,719	2,511	1,075	3,608	1,847	1,132
Gold and silver workers	19,997	127,799	118,151	16,744	125,975	117,014	3,253	11,824	11,137
Gunsmiths, locksmiths, and bell hangers	9,087	10,376	8,107	9,003	10,197	8,075	84	179	32
Hair workers	1,176	1,748	895	639	839	506	537	909	389
Harness and saddle makers and repairers	43,236	39,624	33,127	42,435	38,101	32,963	801	1,523	164
Hat and cap makers	23,717	16,096	12,175	17,165	12,566	9,027	6,552	3,530	3,148
Hosiery and knitting mill operatives	27,466	10,344	3,124	8,145	3,668	1,441	19,321	6,676	1,683
Iron and steel workers	142,794	114,044	84,719	140,589	113,258	83,961	2,205	786	753
Lace and embroidery makers	5,068	61,516	.....	799	6236	.....	4,269	61,280	.....
Lead and zinc workers	4,543	2,047	585	4,349	2,047	507	194	.....	78
Leather carriers, dressers, finishers, and tanners	39,047	29,440	30,442	38,774	29,245	30,363	273	195	79
Machinists	176,744	100,558	54,546	176,610	100,558	54,546	134	.....	.....
Manufacturers and officials of manufacturing companies	101,610	152,217	45,021	101,280	151,791	44,828	330	1426	198

a Includes locomotive engineers and firemen.

b Estimated.

c Includes steamboat men and women, and employes of banks and of express, insurance, and other companies (not clerks); employes partly estimated.

d Cheese makers.

e Charcoal and lime burners.

f Clock makers.

g Seamstresses included with "Tailors and tailoresses".

h Includes jewelers.

i Lace makers.

k Includes officials of mining companies.

NUMBER OF PERSONS IN THE UNITED STATES 16 YEARS OF AGE AND OVER IN 1870 AND 1880 AND 15 YEARS OF AGE AND OVER IN 1890 ENGAGED IN EACH SPECIFIED OCCUPATION, CLASSIFIED BY SEX—Continued.

OCCUPATIONS.	BOTH SEXES.			MALES.			FEMALES.		
	1890	1880	1870	1890	1880	1870	1890	1880	1870
Manufacturing and mechanical industries—Continued.									
Marble and stone cutters	60,885	32,687	25,747	60,827	32,687	25,747	58	—	—
Masons (brick and stone)	158,701	102,313	89,459	158,661	102,313	89,459	40	—	—
Meat, fish, and fruit packers, canners, and preservers	6,833	5,918	2,159	5,356	4,919	1,737	1,477	999	422
Mechanics (not otherwise specified)	15,454	7,828	16,147	15,441	7,823	13,765	13	5	2,882
Metal workers (not otherwise specified)	16,455	—	78	15,636	—	66	819	—	12
Mill and factory operatives (not specified)	87,868	34,630	40,444	48,660	23,170	32,613	39,208	11,460	7,831
Millers (flour and grist)	52,709	53,142	41,460	52,617	53,069	41,222	92	73	238
Model and pattern makers	10,278	25,788	23,961	10,137	25,788	23,961	141	—	—
Molders	66,095	—	—	66,050	—	—	46	—	—
Nail and tack makers	4,846	5,514	—	3,881	5,152	—	465	362	—
Oil well employés	9,126	7,209	3,795	9,116	7,209	3,794	10	—	1
Piano works employés	5,539	3,856	1,694	5,505	3,826	1,671	34	30	23
Painters, glaziers, and varnishers	218,988	129,417	85,798	217,755	129,102	85,718	1,233	315	80
Paper hangers	12,295	4,977	2,455	12,241	4,826	2,438	54	151	17
Paper mill operatives	27,298	20,289	11,769	18,579	14,076	8,170	8,719	6,213	3,599
Photographers	19,962	9,927	7,526	17,774	9,481	7,301	2,188	446	225
Piano and organ makers and tuners, etc.	15,197	7,701	3,548	14,868	7,605	3,536	329	96	12
Plasterers	38,932	22,055	23,686	38,917	22,055	23,685	15	—	1
Plumbers and gas and steam fitters	56,413	19,242	11,071	56,371	19,242	11,071	42	—	—
Potters	14,468	6,521	4,819	12,609	6,063	4,728	1,859	458	91
Powder and cartridge makers	1,352	—	748	945	—	662	407	—	85
Printers, lithographers, pressmen, etc. (b) ..	118,823	70,704	38,851	104,933	67,848	37,481	11,890	3,356	1,370
Print works operatives	6,439	4,628	3,139	4,960	3,686	2,274	1,479	942	805
Publishers of books, maps, and newspapers ..	6,284	2,778	1,577	6,210	2,742	1,577	74	36	—
Roofers and slaters	7,023	4,003	2,723	7,020	4,003	2,723	3	—	—
Rope and cordage makers	7,501	3,142	2,383	4,605	2,729	2,132	2,896	413	251
Rubber factory operatives	15,906	5,973	3,743	9,575	4,107	1,949	6,331	1,866	1,794
Sail, awning, and tent makers	3,239	2,858	2,301	2,995	2,758	2,270	244	100	31
Salt works employés	1,733	1,386	1,665	1,634	1,352	1,665	90	34	—
Saw and planing mill employés	131,740	84,997	57,058	131,486	84,962	56,965	254	35	93
Sewing machine makers (not otherwise classified) ..	865	2,603	3,731	836	2,544	1,941	29	59	1,790
Sewing machine operators	6,863	7,163	2,866	1,073	1,634	181	5,890	5,529	2,685
Ship and boat builders	22,914	19,471	25,152	22,911	19,471	23,136	3	—	16
Shirt, collar, and cuff makers	20,592	11,119	3,918	5,058	3,028	1,237	15,534	8,091	2,681
Silk mill operatives	32,429	14,804	2,363	13,321	7,579	678	19,108	7,225	1,685
Starch makers	702	1,319	217	539	1,170	184	163	149	33
Steam boiler makers	21,291	12,624	6,893	21,285	12,624	6,888	6	—	5
Stove, furnace, and grate makers	8,850	3,261	1,527	8,831	3,261	1,527	19	—	—
Straw workers	3,653	4,129	1,977	1,239	1,493	588	2,414	2,636	1,389
Sugar makers and refiners	2,602	2,312	1,599	2,598	2,299	1,589	4	13	10
Tailors and tailoresses	181,649	128,819	c159,102	120,622	80,489	c64,160	61,027	48,330	c94,942
Tinners and tinware makers	54,841	42,051	30,075	54,038	41,092	30,058	803	959	17
Tobacco and cigar factory operatives	106,355	70,869	86,566	80,502	61,687	33,108	25,853	9,182	3,458
Tool and cutlery makers (not otherwise classified) ..	17,766	14,872	6,489	17,248	14,395	6,400	518	477	89
Trunk, valise, leather-case, and pocket-book makers ..	6,024	4,030	1,966	5,251	3,706	1,896	773	324	70
Umbrella and parasol makers	3,320	1,841	1,372	1,414	1,016	715	1,906	825	657
Upholsterers	25,427	10,215	6,037	23,711	9,786	5,838	1,716	529	199
Wall borers	4,854	—	—	4,853	—	—	1	—	—
Wheelwrights	12,823	15,376	20,927	12,822	15,376	20,927	1	—	—
Whitewashers	3,982	3,306	2,864	3,973	3,291	2,476	9	15	388
Wire workers	12,033	6,835	2,675	10,993	6,620	1,889	1,040	215	786
Wood workers (not otherwise specified)	65,654	16,259	10,651	62,132	16,010	10,578	3,522	249	73
Woolen mill operatives	80,030	78,082	51,409	45,602	47,358	31,984	34,428	30,724	19,425
Other persons in manufacturing and mechanical industries.	73,836	51,318	23,841	58,901	40,861	21,145	14,935	10,457	2,696

a Pattern makers.

b Includes compositors and electrotypers and stereotypers.

c Tailors, tailoresses, and seamstresses.

NUMBER OF PERSONS IN THE UNITED STATES 16 YEARS OF AGE AND OVER, FREE MALES IN 1850 AND FREE PERSONS IN 1860, ENGAGED IN EACH SPECIFIED OCCUPATION.

OCCUPATIONS.	FREE PERSONS (EXCLUD- ING SLAVES).	FREE MALES (EXCLUD- ING SLAVES).	OCCUPATIONS.	FREE PERSONS (EXCLUD- ING SLAVES).	FREE MALES (EXCLUD- ING SLAVES).
	1860	1850		1860	1850
All occupations	8, 235, 557	5, 329, 506	Trade and transportation	801, 607	481, 741
Agriculture, fisheries, and mining.....	3, 547, 700	2, 511, 888	Agents (claim, commission, real estate, insurance, etc.) and collectors.....	18, 844	7, 757
Agricultural laborers	795, 679	(a)	Auctioneers.....	1, 348	890
Apiarists	59	.....	Bankers and brokers (k).....	9, 757	8, 175
Dairymen and dairy women	1, 952	b2, 390	Boatmen and canalmen.....	26, 749	32, 454
Farmers, planters, and overseers.....	2, 509, 456	2, 391, 013	Bookkeepers, clerks, and salesmen (l)	186, 549	101, 325
Fishermen and oystermen.....	26, 755	11, 269	Commercial travelers.....	.....	.....
Gardeners, florists, nurserymen, and vine growers.....	23, 737	10, 885	Draymen, hackmen, teamsters, etc.....	77, 626	40, 747
Lumbermen and raftsmen.....	15, 929	10, 070	Foremen and overseers.....	37, 968	18, 859
Miners.....	154, 038	80, 358	Hostlers.....	8, 581	4, 029
Quarrymen.....	4, 119	1, 932	Hucksters and peddlers.....	19, 819	10, 669
Stock raisers, herders, and drovers.....	11, 151	2, 436	Livery stable keepers.....	5, 361	2, 741
Wood choppers.....	3, 463	1, 528	Merchants and dealers.....	266, 976	178, 821
Other agricultural pursuits.....	1, 362	507	Messengers and errand and office boys.....	(m)	.....
Professional service.....	329, 887	159, 430	Newspaper carriers and newsboys.....	943	209
Actors.....	1, 490	722	Officials of banks and of insurance, trade, transporta- tion, trust, and other companies.....	3, 234	1, 375
Architects.....	1, 263	591	Packers and shippers.....	1, 921	622
Artists and teachers of art.....	4, 729	2, 270	Pilots.....	3, 358	2, 015
Authors and literary and scientific persons.....	307	82	Porters and helpers (in stores and warehouses).....	10, 199	3, 185
Chemists, assayers, and metallurgists.....	625	465	Sailors.....	71, 743	70, 603
Clergymen.....	37, 529	26, 842	Steam railroad employes (n).....	36, 567	4, 831
Dentists.....	5, 606	2, 923	Street railway employes.....	.....	.....
Designers, draftsmen, and inventors.....	435	189	Telegraph and telephone operators.....	1, 956	544
Engineers (civil, mechanical, electrical, and mining) and surveyors.....	c27, 449	2, 126	Telegraph and telephone linemen and electric light and power company employes.....	.....	.....
Journalists.....	3, 405	1, 510	Undertakers.....	835	495
Lawyers.....	34, 839	23, 939	Weighers, gaugers, and measurers.....	850	.....
Musicians and teachers of music.....	10, 354	3, 550	Other persons in trade and transportation.....	10, 423	1, 395
Officers of United States army and navy.....	.....	.....	Manufacturing and mechanical industries.....	1, 877, 403	1, 186, 495
Officials (government).....	32, 887	22, 847	Agricultural implement makers (not otherwise classi- fied).....	2, 390	1, 313
Physicians and surgeons.....	55, 159	40, 765	Apprentices.....	55, 326	1, 846
Professors and teachers.....	112, 969	30, 530	Artificial flower makers.....	600	45
Theatrical managers, showmen, etc.....	278	33	Bakers.....	19, 001	14, 256
Veterinary surgeons.....	392	46	Basket makers.....	2, 862	1, 841
Other professional service.....	171	.....	Blacksmiths.....	114, 001	100, 151
Domestic and personal service.....	1, 678, 960	989, 952	Bleachers, dyers, and scourers.....	3, 867	3, 280
Barbers and hairdressers.....	11, 140	6, 013	Bone and ivory workers.....	689	1, 786
Boarding and lodging house keepers.....	12, 148	2, 554	Bookbinders.....	6, 360	3, 414
Engineers and firemen (not locomotive).....	d513	11, 821	Boot and shoe makers and repairers.....	163, 172	130, 885
Hotel keepers.....	25, 818	22, 476	Bottlers and mineral and soda water makers.....	539	e452
Hunters, trappers, guides, and scouts.....	1, 362	619	Box makers.....	2, 634	940
Janitors.....	.....	.....	Brass workers (not otherwise specified).....	2, 609	1, 926
Laborers (not specified).....	971, 723	910, 973	Brewers and maltsters.....	6, 307	p4, 854
Launderers and laundresses.....	38, 633	.....	Brick and tile makers and terra cotta workers.....	13, 740	11, 514
Nurses and midwives.....	8, 403	.....	Britannia workers.....	334	.....
Restaurant and saloon keepers and bartenders.....	14, 861	e5, 479	Broom and brush makers.....	3, 027	2, 747
Servants (f).....	588, 435	22, 243	Builders and contractors.....	6, 495	3, 496
Sextons.....	836	.....	Butchers.....	30, 103	17, 733
Soldiers, sailors, and marines (United States).....	.....	g5, 149	Butter and cheese makers.....	.....	.....
Watchmen, policemen, and detectives.....	h4, 759	i2, 119	Button makers.....	778	433
Other domestic and personal service.....	329	70	Cabinet makers.....	29, 223	q37, 359
			Candle, soap, and tallow makers.....	2, 971	2, 888

a None reported; probably included under "Farmers, planters, and over-
seers".

b Dairymen and milkmen; milkmen classified in 1890 under "Merchants
and dealers".

c Reported as civil and mechanical engineers and electricians; includes
evidently stationary engineers and possibly locomotive engineers.

d Firemen only; see "Engineers (civil, etc.) and surveyors", under "Pro-
fessional service".

e Barkeepers.

f Includes housekeepers and stewards.

g Soldiers.

h Watchmen and messengers.

i Watchmen.

k Includes commercial brokers.

l Includes stenographers and typewriters.

m Included with "Watchmen", under "Domestic and personal service".

n Includes locomotive engineers and firemen.

o Includes 86 returned as mineral water manufacturers.

p Brewers and distillers.

q Cabinet and chair makers.

NUMBER OF PERSONS IN THE UNITED STATES 16 YEARS OF AGE AND OVER, FREE MALES IN 1850 AND FREE PERSONS IN 1860, ENGAGED IN EACH SPECIFIED OCCUPATION—Continued.

OCCUPATIONS.	FREE PERSONS (EXCLUDING SLAVES).	FREE MALES (EXCLUDING SLAVES).	OCCUPATIONS.	FREE PERSONS (EXCLUDING SLAVES).	FREE MALES (EXCLUDING SLAVES).
	1860	1850		1860	1850
Manufacturing and mechanical industries—Continued.			Manufacturing and mechanical industries—Continued.		
Carpenters and joiners.....	251,298	197,343	Oil works employés.....	429	849
Carpetmakers.....	1,481	1,218	Painters, glaziers, and varnishers.....	54,339	28,372
Carriage and wagon makers (not otherwise classified)...	19,442	15,599	Paper hangers.....	2,005	s2,592
Charcoal, coke, and lime burners.....	a1,659	a1,172	Paper mill operatives.....	t4,772	u2,971
Chemical works employés.....			Photographers.....	3,154	938
Clock and watch makers and repairers.....	5,835	4,082	Piano and organ makers and tuners, etc.....	3,639	2,064
Confectioners.....	6,293	3,871	Plasterers.....	13,119	(v)
Coopers.....	43,886	43,794	Plumbers and gas and steam fitters.....	6,010	1,869
Copper workers.....	1,964	1,760	Potters.....	3,470	4,155
Corset makers.....	37		Powder and cartridge makers.....	w376	x244
Cotton mill operatives.....	(b)	(b)	Printers, lithographers, pressmen, etc. (y).....	23,766	14,886
Distillers and rectifiers.....	2,682	(c)	Print works operatives.....	z321	z226
Door, sash, and blind makers.....	d2,814	d2,026	Publishers of books, maps, and newspapers.....	1,034	363
Dressmakers, milliners, and seamstresses.....	151,955	103	Roofers and slaters.....	1,934	429
Electroplaters.....			Rope and cordage makers.....	2,687	2,200
Engravers.....	2,768	2,208	Rubber factory operatives.....	aa458	bb153
Fertilizer makers.....			Sail, awning, and tent makers.....	2,359	2,182
Gas works employés.....	464	148	Salt works employés.....	537	1,026
Glass workers.....	e3,628	f3,291	Saw and planing mill employés.....	18,025	13,327
Glove makers.....	g753	g247	Sewing machine makers (not otherwise classified).....	100	
Gold and silver workers.....	4,078	3,379	Sewing machine operators.....	264	
Gunsmiths, locksmiths, and bell hangers.....	6,858	5,944	Ship and boat builders.....	21,116	19,934
Hair workers.....	460	299	Shirt, collar, and cuff makers.....	397	
Harness and saddle makers and repairers.....	26,444	23,412	Silk mill operatives.....	cc439	dd103
Hat and cap makers.....	h12,530	i11,024	Starch makers.....	ee78	ee162
Hosiery and knitting mill operatives.....	k399		Steam boiler makers.....	3,813	1,581
Iron and steel workers.....	17,215	15,540	Stove, furnace, and grate makers.....	985	981
Lace and embroidery makers.....	7638	m192	Straw workers.....	2,287	182
Lead and zinc workers.....	635	530	Sugar makers and refiners.....	f469	f307
Leather curriers, dressers, finishers, and tanners.....	15,936	16,950	Tailors and tailoresses.....	101,868	52,069
Machinists.....	43,824	24,095	Tinners and tinware makers.....	17,412	11,747
Manufacturers and officials of manufacturing companies.....	n16,035	o19,704	Tobacco and cigar factory operatives.....	gg21,435	hh10,823
Marble and stone cutters.....	19,825	14,076	Tool and cutlery makers (not otherwise classified).....	4,039	3,623
Masons (brick and stone).....	63,236	p63,392	Trunk, valise, leather-case, and pocket-book makers.....	ii1,882	kk1,854
Meat, fish, and fruit packers, canners, and preservers.....	121		Umbrella and parasol makers.....	ll758	ll722
Mechanics (not otherwise specified).....	23,492	16,004	Upholsterers.....	7,035	mm1,238
Metal workers (not otherwise specified).....	2,274	1,054	Well borers.....		
Mill and factory operatives (not specified).....	134,577	49,118	Wheelwrights.....	32,693	30,693
Millers (flour and grist).....	37,281	27,795	Whitewashers.....	1,574	419
Model and pattern makers.....	2,729	1,467	Wire workers.....	1,445	626
Molders.....	17,077	7,237	Wood workers (not otherwise specified).....	11,989	8,466
Nail and tack makers.....	q2,693	r2,046	Woolen mill operatives.....	nn2,430	nn3,266
Oil well employés.....			Other persons in manufacturing and mechanical industries.....	83,617	37,070

a Charcoal and lime burners.

b None reported; see "Mill and factory operatives (not specified)".

c See "Brewers and maltsters".

d Sash and blind makers.

e Includes 3,225 returned as glass manufacturers.

f Includes 3,237 returned as glass manufacturers.

g Returned as gloves.

h Includes 11,647 returned as hatters.

i Returned as hat and cap manufacturers.

k Knitters.

l Includes 353 returned as lace manufacturers.

m Returned as lace manufacturers.

n Not including persons returned as gloves, hatters, or glass, lace, nail, paper, pocket-book, powder and shot, rubber (india), silk, starch, sugar, or umbrella manufacturers, which have been classified as makers of the several articles specified.

o Not including persons returned as gloves, or glass, hat and cap, lace, mineral water, nail, paper, pocket-book, powder and shot, rubber (india), silk, starch, sugar, or umbrella manufacturers, which have been classified as makers of the several articles specified.

p Masons and plasterers.

q Includes 2,065 returned as nail manufacturers.

r Returned as nail manufacturers.

s Paper hangers and upholsterers.

t Includes 4,578 returned as paper manufacturers.

u Returned as paper manufacturers.

v Included with "Masons (brick and stone)".

w Includes 357 returned as powder and shot manufacturers.

x Returned as powder and shot manufacturers.

y Includes compositors and electrotypes and stereotypers.

z Calico printers.

aa Includes 208 returned as india rubber manufacturers.

bb Returned as india rubber manufacturers.

cc Includes 415 returned as silk manufacturers.

dd Returned as silk manufacturers.

ee Returned as starch manufacturers.

ff Returned as sugar manufacturers.

gg Includes 21,413 returned as tobaccoists.

hh Returned as tobaccoists and cigar makers.

ii Includes 261 returned as pocket-book manufacturers.

kk Includes 193 returned as pocket-book manufacturers.

ll Returned as umbrella manufacturers.

mm Trimmers; upholsterers included with paper hangers.

nn Principally wool combers and carders; see "Mill and factory operatives (not specified)".

OCCUPATIONS BY GENERAL NATIVITY AND COLOR.

The distribution by general nativity and color of persons 10 years of age and over in 1890 engaged in each class of occupations is shown by states and territories in Tables 4 and 5, while a similar distribution of persons engaged in each specified occupation is made for the entire country in Table 6.

As already shown, not quite one-half of the total population 10 years of age and over in 1890 were engaged in gainful occupations, but when considered with respect to general nativity and color the proportion varies widely, especially with regard to the proportion of males and females at work among each element of the population. These results are presented in detail by sex in the following statement:

GENERAL NATIVITY AND COLOR.	POPULATION 10 YEARS OF AGE AND OVER.			MALE POPULATION 10 YEARS OF AGE AND OVER.			FEMALE POPULATION 10 YEARS OF AGE AND OVER.		
	Total.	Number and per cent engaged in gainful occupations.		Total.	Number and per cent engaged in gainful occupations.		Total.	Number and per cent engaged in gainful occupations.	
		Number.	Per cent.		Number.	Per cent.		Number.	Per cent.
Aggregate.....	47,413,559	22,735,661	47.95	24,352,659	18,821,090	77.29	23,060,900	3,914,571	16.97
Total white.....	41,931,074	19,542,188	46.61	21,578,245	16,603,147	76.94	20,352,829	2,939,041	14.44
Native white.....	33,144,187	14,437,431	43.56	16,796,497	12,273,541	73.07	16,347,690	2,163,890	13.24
Native parents.....	25,375,766	10,895,023	42.93	12,901,102	9,535,827	73.91	12,474,664	1,359,196	10.90
Foreign parents.....	7,768,421	3,542,408	45.60	3,895,395	2,737,714	70.28	3,873,026	804,694	20.78
Foreign white.....	8,786,887	5,104,757	58.10	4,781,748	4,329,606	90.54	4,005,139	775,151	19.35
Total colored (a).....	5,482,485	3,193,473	58.25	2,774,414	2,217,943	79.94	2,708,071	975,530	36.02
Persons of negro descent.....	5,328,972	3,073,164	57.67	2,646,171	2,101,379	79.41	2,682,801	971,785	36.22

a Persons of negro descent, Chinese, Japanese, and civilized Indians.

As shown by the above table, foreign white persons at work in 1890 constituted 58.10 per cent and colored persons at work 58.25 per cent, respectively, of the whole number of each element 10 years of age and over. Among the native white element, those of foreign parentage had only 45.60 per cent of their whole number 10 years of age and over at work and those of native parentage but 42.93 per cent. Of the foreign white males 10 years of age and over in 1890, fully nine-tenths were at work, and of the total colored males of the same age very nearly four-fifths were at work. Native white males of native parentage 10 years of age and over had a larger percentage at work than native white males of foreign parentage of the same age, or 73.91 per cent for the former as compared with 70.28 per cent for the latter. For the females, however, the largest proportion at work in 1890 was found among the colored, this element showing 36.02 per cent of those 10 years of age and over at work. The foreign white element among the females had 19.35 per cent of its number 10 years of age and over at work, native white females of foreign parentage 20.78 per cent, and native white females of native parentage 10.90 per cent.

The following statement shows, by sex, the percentage of each element of the population engaged in each class of occupations of the whole number at work, respectively, in 1890:

SEX AND CLASSES OF OCCUPATIONS.	Aggregate.	Native white—native parents.	Native white—foreign parents.	Foreign white.	Total colored. (a)	Persons of negro descent.
Both sexes.....	100.00	100.00	100.00	100.00	100.00	100.00
Agriculture, fisheries, and mining.....	39.65	47.02	22.43	25.58	56.07	57.18
Professional service.....	4.15	5.87	4.35	2.23	1.10	1.11
Domestic and personal service.....	19.18	12.32	17.42	26.94	32.14	31.34
Trade and transportation.....	14.63	15.81	20.74	13.96	4.90	4.74
Manufacturing and mechanical industries.....	22.39	18.98	35.06	31.29	5.79	5.63
Males.....	100.00	100.00	100.00	100.00	100.00	100.00
Agriculture, fisheries, and mining.....	44.28	51.58	28.53	29.39	61.40	63.27
Professional service.....	3.36	4.50	3.04	2.18	1.18	1.20
Domestic and personal service.....	14.31	9.35	13.47	21.13	23.36	21.75
Trade and transportation.....	16.46	16.99	23.57	15.65	6.95	6.82
Manufacturing and mechanical industries.....	21.59	17.58	31.39	31.65	7.11	6.96
Females.....	100.00	100.00	100.00	100.00	100.00	100.00
Agriculture, fisheries, and mining.....	17.36	15.00	1.67	4.34	43.93	44.02
Professional service.....	7.96	15.60	8.85	2.53	0.91	0.91
Domestic and personal service.....	42.60	33.17	30.86	59.37	52.10	52.07
Trade and transportation.....	5.84	7.50	11.09	4.49	0.25	0.24
Manufacturing and mechanical industries.....	26.24	28.73	47.53	29.27	2.81	2.76

a Persons of negro descent, Chinese, Japanese, and civilized Indians.

STATISTICS OF POPULATION.

Of the native white males of native parentage engaged in gainful occupations in 1890, over one-half (51.58 per cent) were engaged in agriculture, fisheries, and mining, while of the total male colored element at work in 1890 over three-fifths (61.40 per cent) were similarly occupied. Among the native white males of foreign parentage and foreign white males at work, those engaged in manufacturing and mechanical industries constituted in each case a slightly larger percentage than those engaged in agriculture, fisheries, and mining, the percentages being, respectively, 31.39 and 31.65 for those in the first-named class of occupations, as compared with 28.53 and 29.39 per cent for those in the latter class of occupations.

With the exception of native white females of foreign parentage, the largest percentage of females at work in 1890 were engaged in each case in domestic and personal service, foreign white females in this class of occupations constituting 59.37 per cent of all foreign white females at work. Colored females engaged in domestic and personal service in 1890 constituted 52.10 per cent of the whole number of colored females in gainful occupations, while those engaged in agriculture, fisheries, and mining constituted 43.93 per cent. Of the native white females of foreign parentage at work in 1890, very nearly one-half, or 47.53 per cent, were engaged in manufacturing and mechanical industries, and not quite one-third, or 30.86 per cent, in domestic and personal service.

The following table shows the distribution by general nativity and color of the whole number of persons of each sex engaged in all occupations and in each class of occupations in 1890, respectively:

SEX, GENERAL NATIVITY, AND COLOR.	ALL OCCUPATIONS.		AGRICULTURE, FISHERIES, AND MINING.		PROFESSIONAL SERVICE.		DOMESTIC AND PERSONAL SERVICE.		TRADE AND TRANS- PORTATION.		MANUFACTURING AND MECHANICAL INDUSTRIES.	
	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
Both sexes	22,735,661	100.00	9,013,336	100.00	944,333	100.00	4,360,577	100.00	3,326,122	100.00	5,091,293	100.00
Native white—native parents ..	10,895,023	47.92	5,122,613	56.83	640,785	67.86	1,342,028	30.78	1,722,462	51.79	2,067,135	40.60
Native white—foreign parents ..	3,542,408	15.58	794,411	8.81	154,288	16.34	617,089	14.15	734,604	22.09	1,242,016	24.40
Foreign white	5,104,757	22.45	1,305,901	14.49	114,113	12.08	1,375,067	31.53	712,558	21.42	1,597,118	31.37
Total colored (a)	8,193,473	14.05	1,790,411	19.87	35,147	3.72	1,026,393	23.54	156,498	4.70	185,024	3.63
Persons of negro descent ..	3,073,164	13.52	1,757,403	19.50	33,994	3.60	963,080	22.08	145,717	4.38	172,970	3.40
Males	18,821,090	100.00	8,333,813	100.00	632,646	100.00	2,692,879	100.00	3,097,701	100.00	4,064,051	100.00
Native white—native parents	9,535,827	50.67	4,918,722	59.02	428,803	67.78	891,132	33.09	1,620,503	52.31	1,676,667	41.25
Native white—foreign parents	2,737,714	14.55	781,003	9.37	83,097	13.13	368,736	13.69	645,380	20.83	859,498	21.15
Foreign white	4,329,606	23.00	1,272,280	15.27	94,490	14.94	914,865	33.98	677,726	21.88	1,370,245	33.72
Total colored (a)	2,217,943	11.78	1,361,808	16.34	26,256	4.15	518,146	19.24	154,092	4.98	157,641	3.88
Persons of negro descent	2,101,379	11.17	1,329,594	15.95	25,170	3.98	457,091	16.97	143,371	4.63	146,153	3.60
Females	3,914,571	100.00	679,523	100.00	311,687	100.00	1,667,698	100.00	228,421	100.00	1,027,242	100.00
Native white—native parents	1,359,196	34.72	203,891	30.01	211,982	68.01	450,896	27.04	101,959	44.64	390,468	38.01
Native white—foreign parents	804,694	20.56	13,408	1.97	71,191	22.84	248,353	14.89	89,224	39.06	382,518	37.24
Foreign white	775,151	19.80	33,621	4.95	19,623	6.30	460,202	27.59	34,832	15.25	226,873	22.08
Total colored (a)	975,530	24.92	428,603	63.07	8,891	2.85	508,247	30.48	2,406	1.05	27,383	2.67
Persons of negro descent	971,785	24.82	427,809	62.96	8,824	2.83	505,989	30.34	2,346	1.03	26,817	2.61

a Persons of negro descent, Chinese, Japanese, and civilized Indians.

Of the whole number of males engaged in gainful occupations in 1890, practically one-half, or 50.67 per cent, were native whites of native parentage, 23.00 per cent were foreign white, 14.55 per cent were native whites of foreign parentage, and 11.78 per cent were colored. The distribution by general nativity and color of the entire male population 10 years of age and over in 1890 was as follows: native white males of native parentage, 52.98 per cent; native white males of foreign parentage, 16.00 per cent; foreign white males, 19.63 per cent, and colored males, 11.39 per cent. These percentages show no great differences in the distribution of males at work as compared with the whole number of males of working age, but when females are considered, very marked differences appear. Native white females of native parentage at work in 1890 constituted 34.72 per cent of the whole number of females in gainful occupations, native white females of foreign parentage 20.56 per cent, foreign white females 19.80 per cent, and colored females 24.92 per cent, while of the female population 10 years of age and over each element constituted, respectively, 54.09, 16.80, 17.37, and 11.74 per cent.

Considering the proportion in each class of occupations, it is seen for males that the native whites of native parentage constituted very nearly three-fifths of all males in agriculture, fisheries, and mining, more than two-thirds of those in professional service, practically one-third of those in domestic and personal service, somewhat more than one-half of those in trade and transportation, and a little more than two-fifths of those in

manufacturing and mechanical industries. Of the total females in agriculture, fisheries, and mining, 63.07 per cent were colored and 30.01 per cent were native whites of native parentage, but of those in professional service more than two-thirds, or 68.01 per cent, were native whites of native parentage and 22.84 per cent were native whites of foreign parentage. The largest percentage of females in domestic and personal service was that for the colored, being 30.48, which was closely followed by 27.59 per cent for foreign white females and 27.04 per cent for native whites of native parentage. In both trade and transportation and manufacturing and mechanical industries the native white females largely predominated, the percentage of those of native parentage in each case exceeding that for those of foreign parentage.

OCCUPATIONS BY AGE PERIODS.

Table 7 shows by states and territories the distribution by age periods of persons 10 years of age and over in 1890 engaged in each class of occupations, and Table 8 shows a similar classification for the entire country of persons engaged in each specified occupation.

The following statement shows the whole number of males and females of each specified age in 1890, and the number and percentage in each case engaged in gainful occupations:

AGE PERIODS.	MALES 10 YEARS OF AGE AND OVER.			FEMALES 10 YEARS OF AGE AND OVER.		
	Total.	Number and per cent engaged in gainful occupations.		Total.	Number and per cent engaged in gainful occupations.	
		Number.	Per cent.		Number.	Per cent.
Aggregate.....	24,352,659	18,821,090	77.29	23,060,900	3,914,571	16.97
10 to 14 years.....	3,574,787	400,586	11.21	3,458,722	202,427	5.85
15 to 19 years.....	3,248,711	1,904,865	58.63	3,308,852	906,240	27.39
20 to 24 years.....	3,104,893	2,856,993	92.02	3,091,783	947,220	30.64
25 to 34 years.....	5,123,975	4,989,814	97.38	4,682,432	807,670	17.25
35 to 44 years.....	3,705,648	3,626,356	97.86	3,346,031	441,067	13.18
45 to 54 years.....	2,627,024	2,538,459	96.63	2,430,878	313,363	12.89
55 to 64 years.....	1,630,373	1,514,615	92.90	1,499,997	180,387	12.03
65 years and over.....	1,233,719	910,895	73.83	1,183,569	98,158	8.29
Age unknown.....	103,529	78,507	75.83	58,636	18,039	30.76

Of the whole number of males 10 to 14 years of age, 400,586, or 11.21 per cent, were engaged in gainful occupations, and of the whole number of females of the same ages, 202,427, or 5.85 per cent, were occupied. As compared with 1880, this shows a very great diminution in the proportion of children at work, although the exact decrease can not be determined on account of the slight difference in the age classification of persons occupied in 1880 as compared with 1890. At the census of 1880 there were 825,187 males and 293,169 females 10 to 15 years of age at work, constituting, respectively, 24.44 and 8.96 per cent of the whole number of males and females of the ages stated. All other persons at work in 1880 were classified with respect to age according to the number of each sex from 16 to 59 years and 60 years and over, so that no comparisons can be made according to the number and percentage at work of each of the specified ages as given in 1890. The whole number of males from 16 to 59 years of age at work in 1880 was 12,986,111, or 93.38 per cent of the whole number of males of those ages, while the females from 16 to 59 years of age at work in 1880 numbered 2,283,115 and constituted 17.07 per cent of all females of those ages. At the census of 1890 the males from 15 to 59 years of age (including "Age unknown") who were at work numbered 16,817,840 and constituted 89.53 per cent of the entire number of males of the ages specified, while of the females of the same ages those at work numbered 3,529,611 and constituted 19.92 per cent. Of the whole number of males 60 years of age and over in 1880, those at work numbered 933,644 and constituted 64.28 per cent, as compared with 1,602,664, or 80.44 per cent, in 1890. Among the females 60 years of age and over in 1880, those at work numbered 70,873 and constituted 5.15 per cent, as compared with 182,534, or 9.69 per cent, in 1890. The number of persons 60 years of age and over at work in 1890 does not appear in the above table. The number and percentage of persons at work for each specified period of years in 1890 are given in detail in the above table and do not require extended analysis.

STATISTICS OF POPULATION.

The following table shows, for each element of the population in 1890, the number and percentage at work, classified by sex and age periods:

SEX AND AGE PERIODS.	NATIVE WHITE POPULATION OF NATIVE PARENTAGE 10 YEARS OF AGE AND OVER.			NATIVE WHITE POPULATION OF FOREIGN PARENTAGE 10 YEARS OF AGE AND OVER.			FOREIGN WHITE POPULATION 10 YEARS OF AGE AND OVER.			COLORED POPULATION 10 YEARS OF AGE AND OVER. (a)		
	Total.	Number and per cent engaged in gainful occupations.		Total.	Number and per cent engaged in gainful occupations.		Total.	Number and per cent engaged in gainful occupations.		Total.	Number and per cent engaged in gainful occupations.	
		Number.	Per cent.		Number.	Per cent.		Number.	Per cent.		Number.	Per cent.
Males.....	12,901,102	9,535,827	73.91	3,895,395	2,737,714	70.28	4,781,748	4,329,606	90.54	2,774,414	2,217,943	79.94
10 to 14 years.....	2,020,917	149,769	7.41	821,982	61,984	7.54	201,159	31,466	15.64	530,720	157,367	29.65
15 to 19 years.....	1,770,908	874,957	49.41	790,348	504,193	63.79	257,658	210,505	81.70	429,797	315,843	73.49
20 to 24 years.....	1,604,239	1,442,510	89.92	660,401	611,299	92.56	476,224	459,861	96.56	364,029	342,690	94.14
25 to 34 years.....	2,524,253	2,449,980	97.06	932,229	906,054	97.19	1,151,644	1,132,646	98.35	515,849	501,134	97.15
35 to 44 years.....	1,944,905	1,899,035	97.64	413,884	404,412	97.71	968,577	952,352	98.32	378,282	370,557	97.96
45 to 54 years.....	1,374,649	1,322,564	96.21	163,102	155,688	95.45	816,453	792,222	97.03	272,820	267,985	98.23
55 to 64 years.....	883,493	822,955	93.15	63,684	58,333	91.60	532,586	486,667	91.38	150,610	146,660	97.38
65 years and over.....	718,548	533,092	74.19	44,939	32,214	71.68	360,817	248,928	68.99	109,415	96,661	88.34
Age unknown.....	59,190	40,965	69.21	4,826	3,537	73.29	16,630	14,959	89.95	22,883	19,046	83.23
Females.....	12,474,664	1,359,196	10.90	3,873,026	804,694	20.78	4,005,139	775,151	19.35	2,708,071	975,530	36.02
10 to 14 years.....	1,943,989	49,048	2.52	808,705	29,943	3.70	195,220	19,145	9.81	510,808	104,291	20.42
15 to 19 years.....	1,781,616	281,540	15.80	811,180	273,171	33.68	263,637	154,954	58.78	452,419	196,578	43.45
20 to 24 years.....	1,580,928	315,256	19.94	685,525	250,731	36.58	441,150	200,488	45.45	384,180	180,742	47.05
25 to 34 years.....	2,397,797	274,481	11.45	922,681	176,957	19.18	862,915	170,791	19.79	499,039	185,441	37.16
35 to 44 years.....	1,828,798	167,436	9.16	387,445	46,756	12.07	761,969	91,612	12.02	367,819	135,263	36.77
45 to 54 years.....	1,352,503	133,153	9.84	152,880	16,649	10.89	680,582	71,497	10.51	244,913	92,064	37.59
55 to 64 years.....	846,819	84,049	9.93	57,995	6,186	10.67	470,192	43,996	9.36	124,691	46,156	36.93
65 years and over.....	713,592	47,867	6.71	42,729	3,094	7.24	321,487	19,669	6.12	105,761	27,528	26.03
Age unknown.....	28,622	6,366	22.24	3,886	1,207	31.06	7,967	2,999	37.55	18,141	7,467	41.16

a Persons of negro descent, Chinese, Japanese, and civilized Indians.

From this table it is seen that the proportion of persons from 10 to 14 years of age at work is very much larger for the foreign white and colored, both male and female, than for the native white, whether of native or foreign parentage. This is also the case with those from 15 to 19 years of age, especially with respect to females, the largest proportion at work being found among the foreign white. It will also be noticed that the proportion of colored 65 years of age and over who were at work is large, as compared with the proportion at work among each of the other elements of the population of the same age.

OCCUPATIONS BY CONJUGAL CONDITION.

The number of persons 10 years of age and over in 1890 engaged in each class of occupations, subdivided by sex and conjugal condition, is given by states and territories in Table 9, and a similar subdivision for those engaged in each specified occupation for the entire country in Table 10.

The number and percentage of males and females at work, out of the whole number of single, married, widowed, and divorced, in 1890, was as follows:

CONJUGAL CONDITION.	MALE POPULATION 10 YEARS OF AGE AND OVER.			FEMALE POPULATION 10 YEARS OF AGE AND OVER.		
	Total.	Number and per cent engaged in gainful occupations.		Total.	Number and per cent engaged in gainful occupations.	
		Number.	Per cent.		Number.	Per cent.
Aggregate.....	24,352,659	18,821,090	77.29	23,060,900	3,914,571	16.97
Single and unknown.....	12,282,893	7,378,971	60.08	9,708,194	2,733,825	28.16
Married.....	11,205,228	10,749,080	95.93	11,126,196	515,260	4.63
Widowed.....	815,437	648,457	79.52	2,154,615	630,268	29.25
Divorced.....	49,101	44,582	90.80	71,895	35,218	48.99

Of all the married males in 1890, those at work constituted 95.93 per cent, while of all the married females only 4.63 per cent were at work. Of the divorced females very nearly one-half, or 48.99 per cent, were at work, and of widowed females very nearly three-tenths, or 29.25 per cent.

Considering the conjugal condition of those occupied according to general nativity and color, the following table is obtained:

SEX AND CONJUGAL CONDITION.	NATIVE WHITE POPULATION OF NATIVE PARENTAGE 10 YEARS OF AGE AND OVER.			NATIVE WHITE POPULATION OF FOREIGN PARENTAGE 10 YEARS OF AGE AND OVER.			FOREIGN WHITE POPULATION 10 YEARS OF AGE AND OVER.			COLORED POPULATION 10 YEARS OF AGE AND OVER. (a)			NEGRO POPULATION 10 YEARS OF AGE AND OVER. (b)		
	Total.	Number and per cent engaged in gainful occupations.		Total.	Number and per cent engaged in gainful occupations.		Total.	Number and per cent engaged in gainful occupations.		Total.	Number and per cent engaged in gainful occupations.		Total.	Number and per cent engaged in gainful occupations.	
		Number.	Per cent.		Number.	Per cent.		Number.	Per cent.		Number.	Per cent.		Number.	Per cent.
Males.....	12,901,102	9,535,827	73.91	3,895,395	2,737,714	70.28	4,781,748	4,329,606	90.54	2,774,414	2,217,943	79.94	2,646,171	2,101,379	79.41
Single and unknown....	6,408,359	3,420,799	53.38	2,727,659	1,610,953	59.06	1,683,506	1,410,691	83.79	1,463,369	936,528	64.00	1,373,750	856,675	62.36
Married.....	6,030,301	5,750,560	95.36	1,111,810	1,078,871	97.04	2,850,810	2,729,369	95.74	1,212,307	1,190,280	98.18	1,175,525	1,155,060	98.26
Widowed.....	432,260	337,489	78.08	51,386	43,599	84.85	238,325	181,333	76.09	93,466	86,036	92.05	91,683	84,601	92.28
Divorced.....	30,182	26,979	89.39	4,540	4,291	94.52	9,107	8,213	90.18	5,272	5,099	96.72	5,213	5,043	96.74
Females.....	12,474,664	1,859,196	10.90	3,873,026	804,694	20.78	4,005,139	775,151	19.35	2,708,071	975,530	36.02	2,682,801	971,785	36.22
Single and unknown....	5,176,377	938,734	18.13	2,371,426	723,307	30.50	986,202	576,255	58.43	1,174,189	495,529	42.20	1,164,196	493,637	42.40
Married.....	6,133,033	135,913	2.22	1,357,779	36,384	2.68	2,435,103	72,623	2.98	1,200,281	270,340	22.52	1,187,706	269,258	22.67
Widowed.....	1,120,964	265,682	23.70	135,959	41,236	30.33	574,855	122,249	21.27	322,837	201,101	62.29	320,205	200,358	62.57
Divorced.....	44,290	18,867	42.60	7,862	3,767	47.91	8,979	4,024	44.82	10,764	8,560	79.52	10,694	8,532	79.70

a Persons of negro descent, Chinese, Japanese, and civilized Indians.

b Includes all persons of negro descent.

From this table it appears that by far the larger part of the married females at work in 1890 were found among the colored, and that this class constituted 22.52 per cent of all the colored females who were married. Next to the colored, the largest percentage of married females at work was that for foreign white, those at work constituting 2.98 per cent of all foreign white females, while the percentage of married females at work among the native white elements of the population was slightly less. Among the widowed and divorced the percentages of colored females at work in 1890 were correspondingly large, being 62.29 per cent for the widowed and 79.52 per cent for the divorced.

For the males, it appears that of the colored very nearly all of those married, or 98.18 per cent, were at work, and if those of negro descent are considered alone a slightly larger per cent, or 98.26, were at work. The largest percentages of widowed and divorced males at work were also found among the colored, those at work constituting 92.05 per cent of all the widowed and 96.72 per cent of all the divorced males who were colored.

The distribution of persons of each sex in each class of occupations according to conjugal condition is shown in the following table:

SEX AND CLASSES OF OCCUPATIONS.	SINGLE AND UNKNOWN.		MARRIED.		WIDOWED.		DIVORCED.	
	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
Males.....	7,378,971	39.21	10,749,080	57.11	648,457	3.44	44,582	0.24
Agriculture, fisheries, and mining.....	3,046,910	36.56	4,969,477	59.63	298,573	3.58	18,853	0.23
Professional service.....	205,195	32.43	400,243	63.27	25,192	3.98	2,016	0.32
Domestic and personal service.....	1,243,574	46.18	1,345,368	49.96	96,627	3.59	7,310	0.27
Trade and transportation.....	1,327,079	42.84	1,680,594	54.25	83,684	2.70	6,344	0.21
Manufacturing and mechanical industries.....	1,556,213	38.29	2,353,398	57.91	144,381	3.55	10,059	0.25
Females.....	2,733,825	69.84	515,260	13.16	630,268	16.10	35,218	0.90
Agriculture, fisheries, and mining.....	295,148	43.44	152,956	22.51	225,548	33.19	5,871	0.86
Professional service.....	273,898	87.88	21,649	6.94	14,337	4.60	1,803	0.58
Domestic and personal service.....	1,164,960	69.85	214,068	12.84	272,109	16.32	16,561	0.99
Trade and transportation.....	187,829	82.23	16,875	7.39	22,219	9.73	1,498	0.65
Manufacturing and mechanical industries.....	811,990	79.05	109,712	10.68	98,055	9.35	9,485	0.92

Of the whole number of males engaged in gainful occupations in 1890, the married constituted 57.11 per cent, the single and unknown 39.21 per cent, the widowed 3.44 per cent, and the divorced 0.24 per cent. The largest percentage of married males was found in professional service and the largest percentage of single and unknown males in domestic and personal service. As would be naturally supposed, very nearly seven-tenths, or 69.84 per cent, of all the females at work in 1890 were single or unknown, married females at work constituting 13.16 per cent of the whole number at work, widowed females 16.10 per cent, and divorced females 0.90 per cent. Of the females engaged in agriculture, fisheries, and mining, 33.19 per cent were widowed, 22.51 per cent were married, and 0.86 per cent were divorced, leaving little more than two-fifths, or 43.44 per cent, who were single or unknown. Married females at work in 1890 constituted 12.84 per cent of all the females in domestic and personal service, and 10.68 per cent of those in manufacturing and mechanical industries.

OCCUPATIONS BY MONTHS UNEMPLOYED.

The number of persons 10 years of age and over who were unemployed at their principal or usual occupation during any portion of the census year ending May 31, 1890, classified by sex and months unemployed, is shown by classes of occupations for each state and territory in Table 11, and by specified occupations for the entire country in Table 12.

This is the first time in the Federal Census that information of this character has been compiled and presented in connection with the statistics of occupations, derived from answers made on the population schedule.

In using these figures it must be understood that they do not represent the number of persons who may have been unemployed at any one time, but simply the aggregate number of persons who were unemployed for different lengths of time and, to a very considerable extent, probably, at different times during the census year, covering the 12 months from June 1, 1889, to May 31, 1890.

It should be stated further that these figures only show the number and approximate length of time unemployed with regard to the principal occupation in which persons so reported were usually engaged and upon which they depended chiefly for a livelihood. They do not show, therefore, the actual length of time for which they were unemployed in any form of remunerative labor, that is, the net period, after making allowance for the time when not engaged at their principal or usual occupation, during which their services may have been utilized at some other kind of work. Although the census enumerators were fully instructed on this point, the returns were not considered complete enough to warrant their compilation.

The following table shows the number and percentage of males and females who were unemployed at their principal occupation during any portion of the census year ending May 31, 1890, subdivided according to general nativity and color:

GENERAL NATIVITY AND COLOR.	MALES 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS.			FEMALES 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS.		
	Total.	Unemployed during portion of year. (a)		Total.	Unemployed during portion of year. (a)	
		Number.	Per cent.		Number.	Per cent.
Aggregate.....	18,821,090	3,013,117	16.01	3,914,571	510,613	13.04
Total white.....	16,603,147	2,621,318	15.79	2,939,041	356,734	12.14
Native white.....	12,273,541	1,847,854	15.06	2,163,890	287,625	13.29
Native parents.....	9,535,827	1,408,689	14.77	1,359,196	175,647	12.92
Foreign parents.....	2,737,714	439,165	16.04	804,694	111,978	13.92
Foreign white.....	4,329,606	773,464	17.86	775,151	69,109	8.92
Total colored (b).....	2,217,943	391,799	17.66	975,530	153,879	15.77
Persons of negro descent.....	2,101,379	374,668	17.83	971,785	153,546	15.80

a Unemployed at principal occupation during any portion of census year ending May 31, 1890.

b Persons of negro descent, Chinese, Japanese, and civilized Indians.

As shown by the above table, there were 3,013,117 males and 510,613 females 10 years of age and over who were unemployed at their principal occupation during some part of the census year ending May 31, 1890, constituting 16.01 and 13.04 per cent, respectively, of the whole number of males and females engaged in gainful occupations. The total number of persons who were unemployed at their principal occupation during any portion of the census year was 3,523,730, being 15.50 per cent of the total number of persons 10 years of age and over engaged in gainful occupations in 1890.

Considered with respect to general nativity and color, it is seen that the foreign white males had the largest proportion of their number unemployed and the foreign white females the smallest proportion.

The length of time unemployed during the census year, expressed in periods of months, is shown for each element of the population as follows:

GENERAL NATIVITY AND COLOR.	MALES UNEMPLOYED DURING PORTION OF YEAR. (a)						FEMALES UNEMPLOYED DURING PORTION OF YEAR. (a)					
	1 to 3 months.		4 to 6 months.		7 to 12 months.		1 to 3 months.		4 to 6 months.		7 to 12 months.	
	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
Aggregate.....	1,553,759	51.57	1,179,426	39.14	279,932	9.29	265,106	51.92	188,992	37.01	56,515	11.07
Total white.....	1,319,911	50.35	1,045,630	39.89	255,777	9.76	181,603	50.91	127,766	35.81	47,365	13.28
Native white.....	944,736	51.13	729,024	39.45	174,094	9.42	143,193	49.78	105,837	36.80	38,595	13.42
Native parents.....	729,324	51.77	554,035	39.33	125,330	8.90	82,352	46.88	69,392	39.51	23,903	13.61
Foreign parents.....	215,412	49.05	174,989	39.85	48,764	11.10	60,841	54.33	36,445	32.55	14,692	13.12
Foreign white.....	375,175	48.51	316,606	40.93	81,683	10.56	38,410	55.58	21,929	31.73	8,770	12.69
Total colored (b).....	233,848	59.69	133,796	34.15	24,155	6.16	83,503	54.26	61,226	39.79	9,150	5.95
Persons of negro descent....	226,627	60.49	125,969	33.62	22,072	5.89	83,388	54.31	61,077	39.78	9,081	5.91

a Unemployed at principal occupation during any portion of census year ending May 31, 1890.

b Persons of negro descent, Chinese, Japanese, and civilized Indians.

Of the whole number of males who were unemployed at their principal occupation during any portion of the census year, 51.57 per cent were unemployed from 1 to 3 months, 39.14 per cent from 4 to 6 months, and 9.29 per cent from 7 to 12 months, while for the females, those unemployed from 1 to 3 months constituted 51.92 per cent, those from 4 to 6 months 37.01 per cent, and those from 7 to 12 months 11.07 per cent of the whole number of females unemployed.

Assuming, for want of more exact data, that the average number of months unemployed for all the persons reported for each period would be the mean in each case, as two months for those unemployed from 1 to 3 months, five months for those unemployed from 4 to 6 months, and nine and one-half months for those unemployed from 7 to 12 months, and reducing the number of persons unemployed for the different periods to an equivalent of so many persons for one year, the approximate number of persons unemployed during the entire census year was 1,139,672, representing 5.01 per cent of the total number of persons engaged in gainful occupations (22,735,661) at the census of 1890. Divided as to sex, the approximate number of males unemployed for the entire census year was 972,000, representing 5.16 per cent of all the males at work (18,821,090) at the census of 1890, while the approximate number of females unemployed during the same period was 167,672, representing 4.28 per cent of all the females at work (3,914,571) at the census of 1890.

The distribution of the males and females who were unemployed according to classes of occupations is given in the following table:

CLASSES OF OCCUPATIONS.	MALES 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS.			FEMALES 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS.		
	Total.	Unemployed during portion of year. (a)		Total.	Unemployed during portion of year. (a)	
		Number.	Per cent.		Number.	Per cent.
All occupations.....	18,821,090	3,013,117	16.01	3,914,571	510,613	13.04
Agriculture, fisheries, and mining.....	8,333,813	1,120,827	13.45	679,523	108,973	16.04
Professional service.....	632,646	54,654	8.64	311,687	87,920	28.21
Domestic and personal service.....	2,692,879	689,307	25.60	1,667,698	130,774	7.84
Trade and transportation.....	3,097,701	247,757	8.00	228,421	15,114	6.62
Manufacturing and mechanical industries.....	4,064,051	900,572	22.16	1,027,242	167,832	16.34

a Unemployed at principal occupation during any portion of the census year ending May 31, 1890.

The largest proportion of males unemployed in any of the great classes of occupations is that for domestic and personal service, in which 25.60 per cent of the whole number of males so occupied were unemployed at their principal occupation during some part of the census year, and the next largest that for manufacturing and mechanical industries, or 22.16 per cent. For the females, the largest proportion was found in professional service, for which class those unemployed at principal occupation during any portion of the census year constituted 28.21 per cent of the whole number of females so occupied. The large proportion of females in this class who were unemployed is due to the great number of teachers who are not employed for the entire year in teaching school, especially in the rural sections of the country.

The following table shows for each class of occupations the length of time unemployed during the census year, expressed in periods of months:

CLASSES OF OCCUPATIONS.	MALES UNEMPLOYED DURING PORTION OF YEAR. (a)						FEMALES UNEMPLOYED DURING PORTION OF YEAR. (a)					
	1 to 3 months.		4 to 6 months.		7 to 12 months.		1 to 3 months.		4 to 6 months.		7 to 12 months.	
	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
All occupations	1,553,759	51.57	1,179,426	39.14	279,932	9.29	265,106	51.92	188,992	37.01	56,515	11.07
Agriculture, fisheries, and mining.....	615,824	54.94	424,368	37.86	80,635	7.20	60,636	55.64	43,973	40.35	4,304	4.01
Professional service.....	23,800	43.56	23,097	42.26	7,748	14.18	41,514	47.22	32,594	37.07	13,812	15.71
Domestic and personal service.....	317,566	46.07	300,004	43.52	71,737	10.41	62,788	48.01	52,674	40.28	15,312	11.71
Trade and transportation.....	126,931	51.23	92,637	37.39	28,189	11.38	6,990	46.25	5,423	35.88	2,701	17.87
Manufacturing and mechanical industries...	469,629	52.15	339,320	37.68	91,623	10.17	93,178	55.52	54,328	32.37	20,326	12.11

a Unemployed at principal occupation during any portion of census year ending May 31, 1890.

The smallest proportion of males and females unemployed more than 6 months during the census year was found in each case in agriculture, fisheries, and mining, and the largest proportion of males in professional service and of females in trade and transportation. In this connection it should be stated that in some cases the census enumerators misinterpreted the instructions relative to persons unemployed, and reported persons as unemployed from 7 to 12 months where it was plainly evident that they really meant that they were employed the number of months stated in the schedule. This was especially true with respect to such occupations as farmers, physicians, lawyers, merchants, bankers, brokers, and the like, where nonemployment for such periods of months would be the exception and not the rule. In all cases where this was clearly apparent the error was eliminated, so far as possible, but in those cases where this point could not be fully determined the number and proportion of persons unemployed from 7 to 12 months are undoubtedly somewhat in excess of the fact. In a word, the statistics of occupations with respect to persons unemployed are approximately but not absolutely true, and this should be always borne in mind by those using the figures contained in the tables relating to this subject.

OCCUPATIONS BY ILLITERACY.

The number of illiterate persons 10 years of age and over in 1890 engaged in each class of occupations is shown by states and territories in Table 13, and in each specified occupation, classified by sex, general nativity, and color, for the entire country in Table 14.

The illiterate male and female population engaged in gainful occupations in 1890 is classified by general nativity and color in the following table, giving in addition the percentages which those at work are of the whole number of illiterate males and females in each case:

GENERAL NATIVITY AND COLOR.	ILLITERATE MALE POPULATION 10 YEARS OF AGE AND OVER.			ILLITERATE FEMALE POPULATION 10 YEARS OF AGE AND OVER.		
	Total.	Number and per cent engaged in gainful occupations.		Total.	Number and per cent engaged in gainful occupations.	
		Number.	Per cent.		Number.	Per cent.
Aggregate.....	3,008,222	2,588,765	86.06	3,316,480	852,306	25.70
Total white.....	1,517,722	1,278,077	84.21	1,694,852	218,758	12.91
Native white.....	978,408	788,468	80.59	1,086,595	130,536	12.01
Native parents.....	888,415	719,824	81.02	1,002,308	118,579	11.83
Foreign parents.....	89,993	68,644	76.28	84,287	11,957	14.19
Foreign white.....	539,314	489,609	90.78	608,257	88,222	14.50
Total colored (a).....	1,490,500	1,310,688	87.94	1,621,628	633,548	39.07
Persons of negro descent.....	1,438,923	1,264,462	87.88	1,603,745	630,970	39.34

a Persons of negro descent, Chinese, Japanese, and civilized Indians.

Considerably more than four-fifths of the illiterate male population and a little more than one-fourth of the illiterate female population in 1890 were engaged in gainful occupations, as shown by the above table. The largest percentage of illiterate males at work were found among the foreign white and colored, 90.78 per cent of

all the illiterate foreign white males and 87.94 per cent of all the illiterate colored males being at work. The illiterate colored females at work constituted 39.07 per cent of the whole number of illiterate colored females in 1890, this percentage being more than two and one-half times as large as that reported for any other class of the female population.

The proportion of illiterate males and females at work to the whole number of persons of each sex who were occupied is shown for each element of the population, as follows:

GENERAL NATIVITY AND COLOR.	MALES 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS.			FEMALES 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS.		
	Total.	Illiterates.		Total.	Illiterates.	
		Number.	Per cent.		Number.	Per cent.
Aggregate	18,821,090	2,588,765	13.75	3,914,571	852,306	21.77
Total white	16,603,147	1,278,077	7.70	2,939,041	218,758	7.44
Native white	12,273,541	788,468	6.42	2,163,890	130,536	6.03
Native parents	9,535,827	719,824	7.55	1,359,196	118,579	8.72
Foreign parents	2,737,714	68,644	2.51	804,694	11,957	1.49
Foreign white	4,329,606	489,609	11.31	775,151	88,222	11.38
Total colored (a)	2,217,943	1,310,688	59.09	975,530	633,548	64.94
Persons of negro descent	2,101,379	1,264,462	60.17	971,785	630,970	64.93

a Persons of negro descent, Chinese, Japanese, and civilized Indians.

Of the whole number of males and females engaged in gainful occupations in 1890, 13.75 and 21.77 per cent, respectively, were returned as illiterate. As shown by the foregoing table, by far the larger proportion of these illiterates were colored, and for this class of the population the illiterate males constituted 59.09 per cent and the illiterate females 64.94 per cent of the whole number of persons of each sex at work.

The following table shows, by sex, the proportion of illiterates in each class of occupations in 1890:

CLASSES OF OCCUPATIONS.	MALES 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS.			FEMALES 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS.		
	Total.	Illiterates.		Total.	Illiterates.	
		Number.	Per cent.		Number.	Per cent.
All occupations	18,821,090	2,588,765	13.75	3,914,571	852,306	21.77
Agriculture, fisheries, and mining	8,333,813	1,706,463	20.48	679,523	385,932	56.79
Professional service	632,646	3,863	0.61	311,687	270	0.09
Domestic and personal service	2,692,879	508,859	18.90	1,667,698	412,768	24.75
Trade and transportation	3,097,701	142,944	4.61	228,421	3,955	1.73
Manufacturing and mechanical industries	4,064,051	226,636	5.58	1,027,242	49,881	4.81

Illiterate persons engaged in agriculture, fisheries, and mining constituted 20.48 per cent of all the males and 56.79 per cent of all the females so occupied. The next largest percentages of illiterate males and females were found in domestic and personal service, constituting, respectively, 18.90 and 24.75 per cent of all the males and females in this class of occupations. In each of the other classes the percentages of illiterates were relatively small, as shown by the table.

STATISTICS OF POPULATION.

OCCUPATIONS BY INABILITY TO SPEAK ENGLISH.

The number of persons 10 years of age and over in 1890 who can not speak English engaged in each class of occupations is shown for each state and territory in Table 15, and in each specified occupation, classified by sex, general nativity, and color, for the whole country in Table 16.

The following table shows the number and percentage of males and females who can not speak English engaged in gainful occupations, classified by general nativity and color:

GENERAL NATIVITY AND COLOR.	MALES 10 YEARS OF AGE AND OVER WHO CAN NOT SPEAK ENGLISH.			FEMALES 10 YEARS OF AGE AND OVER WHO CAN NOT SPEAK ENGLISH.		
	Total.	Number and per cent engaged in gainful occupations.		Total.	Number and per cent engaged in gainful occupations.	
		Number.	Per cent.		Number.	Per cent.
Aggregate.....	858,889	765,152	89.09	859,607	116,094	13.51
Total white.....	773,029	685,879	88.73	836,040	111,056	13.28
Native white.....	106,533	74,472	69.91	131,492	11,163	8.49
Native parents.....	75,874	56,829	74.90	92,275	6,701	7.26
Foreign parents.....	30,659	17,643	57.55	39,217	4,462	11.38
Foreign white.....	666,496	611,407	91.73	704,548	99,893	14.18
Total colored (a).....	85,860	79,273	92.33	23,567	5,038	21.38

a Persons of negro descent, Chinese, Japanese, and civilized Indians.

From this table it appears that of the whole number of males 10 years of age and over who can not speak English, those engaged in gainful occupations in 1890 constituted 89.09 per cent, while of the whole number of females 10 years of age and over who can not speak English, 13.51 per cent were at work. The proportion of those unable to speak English at work among each element of the population is given in detail in the table, and need not be repeated.

Foreign white males and females who can not speak English engaged in gainful occupations in 1890 constituted 14.12 and 12.89 per cent, respectively, of all the foreign white males and females at work, as shown by the following table, which gives for each element of the population the proportion of persons of each sex at work who can not speak English:

GENERAL NATIVITY AND COLOR.	MALES 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS.			FEMALES 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS.		
	Total.	Can not speak English.		Total.	Can not speak English.	
		Number.	Per cent.		Number.	Per cent.
Aggregate.....	18,821,090	765,152	4.07	3,914,571	116,094	2.97
Total white.....	16,603,147	685,879	4.13	2,939,041	111,056	3.78
Native white.....	12,273,541	74,472	0.61	2,163,890	11,163	0.52
Native parents.....	9,535,827	56,829	0.60	1,359,196	6,701	0.49
Foreign parents.....	2,737,714	17,643	0.64	804,694	4,462	0.55
Foreign white.....	4,329,606	611,407	14.12	775,151	99,893	12.89
Total colored (a).....	2,217,943	79,273	3.57	975,530	5,038	0.52
Persons of negro descent.....	2,101,379	7,200	0.34	971,785	3,482	0.36

a Persons of negro descent, Chinese, Japanese, and civilized Indians.

The number and percentage of males and females who can not speak English engaged in each class of occupations in 1890 were as follows:

CLASSES OF OCCUPATIONS.	MALES 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS.			FEMALES 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS.		
	Total.	Can not speak English.		Total.	Can not speak English.	
		Number.	Per cent.		Number.	Per cent.
All occupations.....	18,821,090	765,152	4.07	3,914,571	116,094	2.97
Agriculture, fisheries, and mining.....	8,333,813	271,164	3.25	679,523	12,304	1.81
Professional service	632,646	4,921	0.78	311,687	583	0.19
Domestic and personal service.....	2,692,879	230,118	8.55	1,667,608	58,758	3.52
Trade and transportation.....	3,097,701	58,232	1.88	228,421	2,125	0.93
Manufacturing and mechanical industries.....	4,064,051	200,717	4.94	1,027,242	42,324	4.12

Of the whole number of males in domestic and personal service in 1890, 8.55 per cent can not speak English, and of those in manufacturing and mechanical industries, 4.94 per cent can not speak English. There were also 3.25 per cent of all the males engaged in agriculture, fisheries, and mining in 1890 who can not speak English. The largest percentage of females who can not speak English was found in manufacturing and mechanical industries, or 4.12 per cent, and the next largest in domestic and personal service, or 3.52 per cent.

STATISTICS OF POPULATION.

TABLE 1.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS

	STATES AND TERRITORIES.	POPULATION 10 YEARS OF AGE AND OVER.			PERSONS ENGAGED IN GAINFUL OCCUPATIONS.			PERSONS ENGAGED IN AGRICULTURE, FISHERIES, AND MINING.		
		Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
1	The United States	47,413,559	24,352,659	23,060,900	22,735,661	18,821,090	3,914,571	9,013,336	8,333,813	679,523
2	North Atlantic division	13,888,377	6,904,566	6,983,811	6,971,460	5,543,041	1,428,419	1,265,950	1,245,102	20,848
3	Maine	541,662	271,787	269,875	257,096	212,033	45,063	86,296	84,831	1,465
4	New Hampshire	315,497	155,928	159,569	164,703	127,845	36,858	42,982	42,360	622
5	Vermont	271,173	137,899	133,274	128,771	108,804	19,967	56,183	55,534	649
6	Massachusetts	1,839,607	887,063	952,544	982,444	719,166	263,278	81,100	80,163	937
7	Rhode Island	281,959	135,955	146,004	155,878	113,164	42,714	12,606	12,422	184
8	Connecticut	609,830	300,675	309,155	317,014	245,634	71,380	48,676	47,909	767
9	New York	4,822,392	2,385,622	2,436,770	2,435,725	1,921,785	513,940	410,132	401,529	8,603
10	New Jersey	1,143,123	568,585	574,538	570,738	459,467	111,271	74,889	73,477	1,412
11	Pennsylvania	4,063,134	2,061,052	2,002,082	1,959,091	1,635,143	323,948	453,086	446,877	6,209
12	South Atlantic division	6,415,921	3,178,769	3,237,152	3,118,056	2,431,787	686,269	1,714,318	1,466,832	247,486
13	Delaware	131,967	67,309	64,658	64,286	53,938	10,348	18,702	18,395	307
14	Maryland	798,605	392,485	406,120	393,267	308,515	84,752	105,396	102,669	2,727
15	District of Columbia	188,567	88,703	99,864	101,119	68,992	32,127	1,886	1,829	57
16	Virginia	1,211,934	598,677	613,257	551,839	445,473	106,366	271,745	255,009	16,736
17	West Virginia	549,538	281,576	267,962	223,788	202,081	21,707	129,887	126,631	3,256
18	North Carolina	1,147,446	559,764	587,682	537,363	422,171	115,192	374,359	318,711	55,648
19	South Carolina	802,406	395,466	406,940	440,854	311,423	129,431	328,017	239,507	88,450
20	Georgia	1,302,208	647,922	654,286	668,713	508,790	159,923	418,128	347,601	70,527
21	Florida	283,250	146,867	136,383	136,827	110,404	26,423	66,198	56,420	9,778
22	North Central division	16,909,613	8,828,083	8,081,530	7,673,838	6,661,149	1,012,689	3,239,103	3,158,833	80,270
23	Ohio	2,858,659	1,442,430	1,416,229	1,272,786	1,088,609	184,177	429,019	418,806	10,213
24	Indiana	1,674,028	855,368	818,660	724,058	639,156	84,902	330,569	322,221	8,348
25	Illinois	2,907,671	1,507,159	1,400,512	1,353,559	1,153,249	200,310	456,488	443,559	12,929
26	Michigan	1,619,035	851,163	767,872	759,575	663,627	95,948	308,501	302,398	6,103
27	Wisconsin	1,258,390	657,968	600,422	576,290	495,229	81,061	242,099	236,168	5,931
28	Minnesota	962,350	523,342	439,008	469,086	403,461	65,625	195,422	191,596	3,826
29	Iowa	1,441,308	755,134	686,174	631,835	551,418	80,417	330,390	322,296	8,094
30	Missouri	1,995,638	1,037,994	957,644	884,379	771,554	112,825	404,665	392,245	12,420
31	North Dakota	129,452	74,442	55,010	67,771	59,956	7,815	43,955	43,131	824
32	South Dakota	236,208	133,252	102,956	114,093	102,635	11,458	70,839	69,429	1,410
33	Nebraska	771,659	426,815	344,844	368,060	325,416	42,644	170,574	167,117	3,457
34	Kansas	1,055,215	563,016	492,199	452,346	406,839	45,507	256,582	249,867	6,715
35	South Central division	7,799,487	3,977,614	3,821,873	3,635,814	2,973,045	662,769	2,347,204	2,023,282	323,922
36	Kentucky	1,360,031	689,572	670,459	590,324	506,946	83,378	326,085	314,212	11,873
37	Tennessee	1,276,631	640,677	635,954	553,753	473,171	80,582	336,886	313,070	23,816
38	Alabama	1,069,545	531,941	537,604	541,602	411,627	129,975	380,852	299,861	80,991
39	Mississippi	902,028	451,788	450,240	462,739	337,931	124,808	360,049	270,684	89,365
40	Louisiana	794,683	394,815	399,868	423,074	314,293	108,781	240,730	185,266	55,464
41	Texas	1,564,755	830,783	733,972	696,208	610,193	86,015	432,318	398,140	34,178
42	Oklahoma	44,701	25,811	18,890	20,906	19,849	1,057	13,928	13,617	311
43	Arkansas	787,113	412,227	374,886	347,208	299,035	48,173	256,356	228,432	27,924
44	Western division	2,400,161	1,463,627	936,534	1,336,493	1,212,068	124,425	446,761	439,764	6,997
45	Montana	107,811	75,596	32,215	72,223	67,587	4,636	25,780	25,584	196
46	Wyoming	47,755	32,675	15,080	30,630	28,736	1,894	11,201	11,128	73
47	Colorado	327,896	202,719	125,177	191,943	172,796	19,147	59,243	58,548	695
48	New Mexico	112,541	61,885	50,656	54,151	50,217	3,934	26,611	26,190	421
49	Arizona	46,076	29,736	16,340	26,416	24,847	1,569	10,528	10,427	101
50	Utah	147,227	79,747	67,480	66,901	59,825	7,076	24,083	23,510	573
51	Nevada	38,225	25,370	12,855	23,415	21,591	1,824	10,536	10,404	132
52	Idaho	62,721	40,276	22,445	35,172	33,278	1,894	18,814	18,612	202
53	Washington	275,639	179,965	95,674	164,696	153,581	11,115	47,943	47,291	652
54	Oregon	244,374	146,406	97,968	126,781	115,988	10,793	50,980	50,080	900
55	California	989,896	589,252	400,644	544,165	483,622	60,543	161,042	157,990	3,052

AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY SEX, BY STATES AND TERRITORIES: 1890.

PERSONS ENGAGED IN PROFESSIONAL SERVICE.			PERSONS ENGAGED IN DOMESTIC AND PERSONAL SERVICE.			PERSONS ENGAGED IN TRADE AND TRANSPORTATION.			PERSONS ENGAGED IN MANUFACTURING AND MECHANICAL INDUSTRIES.			
Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	
944,333	632,646	311,687	4,360,577	2,692,879	1,667,698	3,326,122	3,097,701	228,421	5,091,293	4,064,051	1,027,242	1
299,468	192,797	106,671	1,523,513	946,721	576,792	1,316,779	1,201,802	115,477	2,565,750	1,957,119	608,631	2
12,364	6,007	6,357	41,091	26,908	14,183	37,291	34,850	2,441	80,054	59,437	20,617	3
6,831	3,529	3,302	23,711	14,428	9,283	19,771	18,339	1,432	71,408	49,189	22,219	4
6,276	3,029	3,247	22,059	11,805	10,254	14,551	13,834	717	29,702	24,602	5,100	5
43,247	26,248	16,999	185,938	99,755	86,183	196,513	174,239	22,274	475,646	338,761	136,885	6
5,446	3,447	1,999	28,906	17,747	11,159	27,372	24,709	2,663	81,548	54,839	26,709	7
12,485	7,509	4,976	60,078	35,166	24,907	49,383	44,457	4,926	146,397	110,593	35,804	8
115,376	76,484	38,892	554,437	327,552	226,885	527,564	481,790	45,774	828,216	634,430	193,786	9
22,363	15,600	6,763	129,522	81,334	48,188	120,072	111,885	8,687	223,892	177,671	46,221	10
75,080	50,944	24,136	477,776	332,026	145,750	324,262	297,699	26,563	628,487	507,597	121,290	11
92,361	66,791	25,570	591,812	282,173	309,639	308,751	291,228	17,523	410,814	324,763	86,051	12
2,213	1,505	708	16,222	10,313	5,909	9,045	8,331	714	18,104	15,394	2,710	13
14,576	10,144	4,432	102,301	54,455	47,846	68,979	63,233	5,746	102,015	78,014	24,001	14
7,308	5,089	1,619	39,723	19,143	20,580	28,891	23,900	4,991	23,311	18,431	4,880	15
17,035	11,965	5,730	126,259	58,545	67,714	58,526	56,649	1,877	77,614	63,305	14,309	16
8,662	6,397	2,265	31,424	19,427	11,997	22,973	22,239	734	30,842	27,387	3,455	17
12,296	8,971	3,325	71,264	29,087	42,177	28,799	28,171	628	50,645	37,231	13,414	18
8,193	5,970	2,223	61,772	22,335	29,437	21,735	21,024	711	31,137	22,527	8,610	19
15,969	11,907	4,062	120,852	49,395	71,457	54,770	53,054	1,716	58,994	46,833	12,161	20
5,449	4,243	1,206	31,995	19,473	12,522	15,033	14,627	406	18,152	15,641	2,511	21
371,347	236,730	134,617	1,379,151	905,238	473,913	1,151,139	1,076,163	74,976	1,533,098	1,284,185	248,913	22
61,913	41,783	20,130	255,289	173,384	81,905	195,578	180,978	14,600	330,987	273,658	57,329	23
34,519	24,104	10,415	127,118	88,076	39,042	92,344	87,059	5,285	139,508	117,696	21,812	24
63,122	41,176	21,946	268,105	175,161	92,944	246,704	227,246	19,458	319,140	266,107	53,033	25
33,490	20,445	13,045	152,210	106,915	45,295	103,276	95,991	7,285	162,098	137,878	24,220	26
24,278	13,545	10,733	111,998	73,196	38,802	68,620	63,830	4,790	129,295	108,490	20,805	27
22,767	14,060	8,707	94,093	57,976	36,117	72,456	68,185	4,271	83,748	71,644	12,104	28
37,762	18,962	18,800	85,932	52,916	33,016	88,097	83,066	4,431	89,654	73,578	16,076	29
39,465	27,963	11,502	147,296	91,005	56,291	140,046	132,083	7,963	152,907	128,258	24,649	30
3,058	1,945	1,113	9,282	4,407	4,875	6,679	6,505	174	4,797	3,968	829	31
5,995	3,613	2,382	13,911	8,232	5,679	12,850	12,461	389	10,498	8,900	1,598	32
19,539	12,294	7,245	59,272	38,745	20,527	62,883	59,355	3,528	55,792	47,905	7,887	33
25,439	16,840	8,599	54,045	35,225	18,820	61,606	58,804	2,802	54,674	46,103	8,571	34
114,263	86,914	27,349	535,709	288,575	247,134	315,318	304,360	10,958	323,320	269,914	53,406	35
22,150	16,135	6,015	98,269	51,964	46,305	61,145	57,940	3,205	82,675	66,695	15,980	36
19,450	14,983	4,467	85,339	43,480	41,859	53,906	52,126	1,780	58,172	49,512	8,660	37
11,952	9,180	2,772	73,480	34,840	38,640	36,299	35,388	911	39,019	32,358	6,661	38
10,862	7,587	3,275	49,774	21,507	28,267	22,417	21,817	600	19,637	16,336	3,301	39
10,026	7,196	2,830	90,068	51,217	38,851	40,586	38,483	2,103	41,664	32,131	9,533	40
28,123	22,226	5,897	100,669	63,459	37,210	77,033	75,209	1,824	58,065	51,159	6,906	41
1,017	843	174	1,718	1,344	374	2,075	2,025	50	2,168	2,020	148	42
10,683	8,764	1,919	36,392	20,764	15,628	21,857	21,372	485	21,920	19,703	2,217	43
66,894	49,414	17,480	330,392	270,172	60,220	234,135	224,648	9,487	258,311	228,070	30,241	44
2,900	2,294	606	20,336	17,653	2,683	11,443	11,219	224	11,764	10,837	927	45
1,203	953	250	8,334	7,169	1,165	5,258	5,172	86	4,634	4,314	320	46
9,830	7,458	2,372	42,952	32,656	10,296	40,538	38,779	1,759	39,380	35,355	4,025	47
1,712	1,386	326	16,852	14,331	2,521	4,979	4,903	76	3,997	3,407	590	48
1,095	928	167	8,322	7,371	951	3,738	3,705	33	2,733	2,416	317	49
2,843	2,135	708	15,535	12,037	3,498	11,088	10,548	540	13,352	11,595	1,757	50
1,060	730	330	5,450	4,526	924	3,308	3,251	57	3,061	2,680	381	51
1,295	1,004	291	6,718	5,788	930	4,358	4,273	85	3,987	3,601	386	52
8,214	6,598	1,616	42,291	36,692	5,599	29,266	28,421	845	36,982	34,579	2,403	53
6,926	5,007	1,919	26,542	21,847	4,695	19,373	18,534	839	22,960	20,520	2,440	54
29,816	20,921	8,895	137,060	110,102	26,958	100,786	95,843	4,943	115,461	98,766	16,695	55

STATISTICS OF POPULATION.

TABLE 2.—TOTAL PERSONS 10 YEARS OF AGE AND OVER IN THE UNITED STATES ENGAGED IN EACH SPECIFIED OCCUPATION, CLASSIFIED BY SEX: 1890.

OCCUPATIONS.	Total.	Males.	Females.	OCCUPATIONS.	Total.	Males.	Females.
All occupations	22,735,661	18,821,090	3,914,571	Trade and transportation—Continued.			
Agriculture, fisheries, and mining	9,013,336	8,333,813	679,523	Merchants and dealers in wines and liquors (retail) ..	10,078	9,942	136
Agricultural laborers (a)	3,004,061	2,556,957	447,104	Merchants and dealers in wines and liquors (wholesale) ..	3,643	3,605	38
Apiarists	1,773	1,728	45	Merchants and dealers, not specified (retail) ..	446,262	430,314	15,948
Dairymen and dairywomen	17,895	16,161	1,734	Merchants and dealers (wholesale), importers, and shipping merchants ..	27,443	27,285	158
Farmers, planters, and overseers (b) ..	5,281,557	5,055,130	226,427	Messengers and errand and office boys ..	51,355	48,446	2,909
Fishermen and oystermen (c)	60,162	59,899	263	Newspaper carriers and newsboys	5,288	5,216	72
Gardeners, florists, nurserymen, and vine growers ..	72,601	70,186	2,415	Officials of banks and of insurance, trade, transportation, trust, and other companies. (k) ..	39,900	39,683	217
Lumbermen and raftsmen	65,866	65,838	28	Packers and shippers	24,946	18,426	6,520
Miners (coal)	208,545	208,330	215	Pilots	4,259	4,258	1
Miners (not otherwise specified)	141,047	140,914	133	Porters and helpers (in stores and warehouses) ..	24,356	24,002	354
Quarrymen	37,656	37,628	28	Sailors (g)	55,899	55,882	17
Stock raisers, herders, and drovers ..	70,729	70,047	682	Salesmen and saleswomen	284,394	205,943	58,451
Wood choppers	33,697	33,665	32	Steam railroad employes (not otherwise specified). (l) ..	382,750	381,312	1,438
Other agricultural pursuits (d)	17,747	17,330	417	Stenographers and typewriters	33,418	12,148	21,270
Professional service	944,333	632,646	311,687	Street railway employes	37,434	37,423	11
Actors	9,728	5,779	3,949	Telegraph and telephone operators	52,214	43,740	8,474
Architects	8,070	8,048	22	Telegraph and telephone linemen and electric light and power company employes ..	11,134	10,465	669
Artists and teachers of art	22,496	11,681	10,815	Undertakers	9,891	9,808	83
Authors and literary and scientific persons ..	6,714	3,989	2,725	Weighers, gaugers, and measurers	3,860	3,842	18
Chemists, assayers, and metallurgists ..	4,503	4,464	39	Other persons in trade and transportation ..	3,883	3,080	803
Clergymen	88,203	87,060	1,143	Manufacturing and mechanical industries ..	5,091,293	4,064,051	1,027,242
Dentists	17,498	17,161	337	Agricultural implement makers (not otherwise classified). (m) ..	3,755	3,731	24
Designers, draftsmen, and inventors ..	9,391	9,086	305	Apprentices (blacksmiths)	4,244	4,242	2
Engineers (civil, mechanical, electrical, and mining) and surveyors ..	43,239	43,115	124	Apprentices (boot and shoe makers) ..	1,031	1,004	27
Journalists	21,849	20,961	888	Apprentices (carpenters and joiners) ..	6,760	6,751	9
Lawyers	89,630	89,422	208	Apprentices (carriage and wagon makers) ..	852	851	1
Musicians and teachers of music	62,155	27,636	34,519	Apprentices (dressmakers)	4,340	4,340	0
Officers of United States army and navy ..	2,926	2,926	0	Apprentices (leather carriers, etc.) ..	421	421	0
Officials (government) (e)	79,664	74,789	4,875	Apprentices (machinists)	9,738	9,726	12
Physicians and surgeons	104,805	100,248	4,557	Apprentices (masons)	1,927	1,926	1
Professors in colleges and universities ..	5,392	4,697	695	Apprentices (milliners)	1,204	1,204	0
Teachers	341,952	96,581	245,371	Apprentices (painters)	2,321	2,314	7
Theatrical managers, showmen, etc.	18,055	17,421	634	Apprentices (plumbers)	4,624	4,622	2
Veterinary surgeons	6,494	6,492	2	Apprentices (printers)	4,635	4,483	152
Other professional service	1,569	1,090	479	Apprentices (tailors)	2,625	1,925	700
Domestic and personal service	4,360,577	2,692,879	1,667,698	Apprentices (tinsmiths)	2,037	2,034	3
Barbers and hairdressers	84,982	82,157	2,825	Apprentices (not otherwise specified) ..	35,698	34,156	1,542
Bartenders	55,806	55,660	146	Artificial flower makers	3,046	503	2,543
Boarding and lodging house keepers ..	44,349	11,756	32,593	Bakers	60,197	57,910	2,287
Engineers and firemen (not locomotive) ..	139,765	139,718	47	Basket makers	5,225	4,514	711
Hotel keepers	44,076	38,800	5,276	Blacksmiths	205,337	205,279	58
Housekeepers and stewards (f)	92,036	5,947	86,089	Bleachers, dyers, and scourers	14,210	12,503	1,707
Hunters, trappers, guides, and scouts ..	2,534	2,515	19	Bone and ivory workers	1,691	1,469	222
Janitors	21,556	18,776	2,780	Bookbinders	23,858	12,298	11,560
Laborers (not specified) (a)	1,913,373	1,858,558	54,815	Boot and shoe makers and repairers ..	213,544	179,867	33,677
Lauderers and laundresses	248,462	31,831	216,631	Bottlers and mineral and soda water makers ..	7,230	6,681	549
Nurses and midwives	47,586	6,190	41,396	Box makers (paper)	17,757	4,714	13,043
Restaurant keepers	19,283	16,867	2,416	Box makers (wood)	10,883	9,572	1,311
Saloon keepers	71,385	69,110	2,275	Brass workers (not otherwise specified). (n) ..	17,265	16,352	913
Servants	1,454,791	238,152	1,216,639	Brewers and maltsters (o)	20,362	20,294	68
Sextons	4,982	4,954	28	Brick and tile makers and terra cotta workers. (o) ..	60,214	60,070	144
Soldiers, sailors, and marines (United States). (g) ..	27,919	27,919	0	Britannia workers	904	787	117
Watchmen, policemen, and detectives ..	74,629	74,350	279	Broom and brush makers	10,115	8,949	1,166
Other domestic and personal service ..	13,063	9,619	3,444	Builders and contractors	45,988	45,978	10
Trade and transportation	3,326,122	3,097,701	228,421	Butchers	105,456	105,339	117
Agents (claim, commission, real estate, insurance, etc.) and collectors ..	174,582	169,707	4,875	Butter and cheese makers	11,211	10,808	403
Auctioneers	3,205	3,203	2	Button makers	2,601	1,011	1,590
Bankers and brokers (money and stocks) ..	30,008	29,508	500	Cabinet makers	35,915	35,891	24
Boatmen and canalmen	16,716	16,683	33	Candle, soap, and tallow makers ..	3,450	3,051	399
Bookkeepers and accountants (h)	159,374	131,602	27,772	Carpenters and joiners	611,482	611,293	189
Brokers (commercial)	5,960	5,950	10	Carpet makers (p)	22,302	11,546	10,756
Clerks and copyists (i)	557,358	493,139	64,219	Carriage and wagon makers (not otherwise classified). (m) ..	34,538	34,308	230
Commercial travelers	58,691	58,080	611	Charcoal, coke, and lime burners	8,704	8,689	15
Draymen, hackmen, teamsters, etc.	368,499	368,265	234	Chemical works employes (o)	3,628	2,613	1,015
Foremen and overseers	36,084	35,109	975	Clock and watch makers and repairers ..	25,252	20,556	4,696
Hostlers	54,036	54,014	22	Compositors (q)	30,060	23,745	6,315
Hucksters and peddlers	59,083	56,824	2,259	Confectioners	23,251	17,577	5,674
Livery stable keepers	26,757	26,710	47	Coopers	47,486	47,438	48
Locomotive engineers and firemen (j) ...	79,463	79,459	4	Copper workers	3,384	3,377	7
Merchants and dealers in drugs and chemicals (retail) ..	46,375	45,641	734	Corset makers	6,533	733	5,800
Merchants and dealers in dry goods (retail) ..	42,527	40,349	2,178	Cotton mill operatives (r)	173,142	80,177	92,965
Merchants and dealers in groceries (retail) ..	114,997	108,638	6,359				

TABLE 2.—TOTAL PERSONS 10 YEARS OF AGE AND OVER IN THE UNITED STATES ENGAGED IN EACH SPECIFIED OCCUPATION, CLASSIFIED BY SEX: 1890—Continued.

OCCUPATIONS.	Total.	Males.	Females.	OCCUPATIONS.	Total.	Males.	Females.
Manufacturing and mechanical industries—				Manufacturing and mechanical industries—			
Continued.				Continued.			
Distillers and rectifiers (o).....	3,314	3,305	9	Photographers.....	20,040	17,839	2,201
Door, sash, and blind makers (s).....	5,041	5,031	10	Piano and organ makers and tuners (z)...	14,683	14,367	316
Dressmakers.....	289,164	836	288,328	Plasterers.....	39,002	38,987	15
Electroplaters.....	2,756	2,644	112	Plumbers and gas and steam fitters.....	56,607	56,563	44
Electrotypers and stereotypers (g).....	1,471	1,466	5	Potters.....	14,928	12,939	1,989
Engravers.....	8,320	8,017	303	Powder and cartridge makers.....	1,385	963	422
Fertilizer makers (o).....	732	726	6	Printers, lithographers, and press-	86,893	81,154	5,739
Fish curers and packers (t).....	1,279	1,084	195	men. (aa).....			
Gas works employes (o).....	5,224	5,219	5	Print works operatives (bb).....	6,701	5,162	1,539
Glass workers.....	34,282	32,572	1,710	Publishers of books, maps, and news-	6,284	6,210	74
Glove makers.....	6,416	2,741	3,675	papers.			
Gold and silver workers.....	20,263	16,914	3,349	Roofers and slaters.....	7,043	7,040	3
Gunsmiths, locksmiths, and bell hangers.	9,158	9,069	89	Rope and cordage makers.....	8,001	4,896	3,105
Hair workers.....	1,254	684	570	Rubber factory operatives.....	16,162	9,706	6,456
Harness and saddle makers and re-	43,480	42,647	833	Sail, awning, and tent makers.....	3,257	3,006	251
pairers.				Salt works employes.....	1,765	1,662	103
Hat and cap makers.....	24,013	17,319	6,694	Saw and planing mill employes (cc).....	133,637	133,355	282
Hosiery and knitting mill operatives (p).....	29,555	8,745	20,810	Seamstresses (dd).....	150,044	4,001	146,043
Iron and steel workers (u).....	144,921	142,585	2,336	Sewing machine makers (not otherwise	880	850	30
Lace and embroidery makers.....	5,256	821	4,435	classified). (ee).....			
Lead and zinc workers.....	4,616	4,413	203	Sewing machine operators (ff).....	7,126	1,104	6,022
Leather curriers, dressers, finishers, and	39,332	39,040	292	Ship and boat builders.....	22,951	22,948	3
tanners.				Shirt, collar, and cuff makers (gg).....	21,107	5,132	15,975
Machinists.....	177,090	176,951	139	Silk mill operatives (hh).....	34,855	14,192	20,663
Manufacturers and officials of manu-	101,610	101,280	330	Starch makers.....	746	566	180
facturing companies.				Steam boiler makers.....	21,339	21,333	6
Marble and stone cutters.....	61,070	61,012	58	Stove, furnace, and grate makers (y).....	8,932	8,912	20
Masons (brick and stone).....	158,918	158,878	40	Straw workers.....	3,666	1,243	2,423
Meat and fruit packers, canners, and	5,830	4,419	1,411	Sugar makers and refiners.....	2,616	2,612	4
preservers. (v).....				Tailors and tailoresses (gg).....	185,400	121,591	63,809
Mechanics (not otherwise specified).....	15,485	15,472	13	Tinners and tinware makers.....	55,488	54,589	899
Metal workers (not otherwise specified).....	16,694	15,837	857	Tobacco and cigar factory operatives.....	111,625	83,634	27,991
Mill and factory operatives (not speci-	93,596	51,603	41,993	Tool and cutlery makers (not otherwise	17,985	17,449	536
fied). (w).....				classified). (nn).....			
Millers (flour and grist).....	52,841	52,747	94	Trunk, valise, leather-case, and pocket-	6,279	5,458	821
Milliners.....	60,482	395	60,087	book makers.			
Model and pattern makers.....	10,300	10,159	141	Umbrella and parasol makers.....	3,403	1,465	1,938
Molders.....	66,289	66,243	46	Upholsterers.....	25,666	23,918	1,748
Musical instrument makers (not other-	652	629	23	Well borers.....	4,854	4,853	1
wise specified). (x).....				Wheelwrights.....	12,856	12,855	1
Nail and tack makers (y).....	4,583	4,106	477	Whitewashers.....	3,996	3,987	9
Oil well employes.....	9,147	9,137	10	Wire workers.....	12,319	11,238	1,081
Oil works employes.....	5,624	5,587	37	Wood workers (not otherwise specified).....	67,360	63,600	3,760
Painters, glaziers, and varnishers.....	219,912	218,646	1,266	Woolen mill operatives (ii).....	84,109	47,638	36,471
Paper hangers.....	12,369	12,315	54	Other persons in manufacturing and	76,714	60,806	15,908
Paper mill operatives.....	27,817	18,856	8,961	mechanical industries.			

a In agricultural districts "agricultural laborers" are often reported simply as "laborers".

b Farmers' wives, sons, and daughters, working in common and without stated remuneration, especially in the southern states, are often reported as "farmers", and so tabulated.

c Frequently returned as "sailors". In many cases where the avocation is followed for only a portion of the year they are reported under some other branch of industry.

d Includes "turpentine farmers and laborers", principally found in a few of the southern states.

e Includes national, state, county, city, and town governments.

f Includes paid housekeepers in private families, hotels, etc., matrons in public and private institutions, and stewards and stewardesses.

g "Sailors" at sea are liable to be omitted unless they are actual members of families which are enumerated.

h Includes bookkeepers and accountants of all kinds, irrespective of where they may happen to be employed.

i Includes clerks and copyists of all kinds, irrespective of where they may happen to be employed. See "Stenographers and typewriters".

j See "Steam railroad employes (not otherwise specified)".

k Includes officials of mining and quarrying companies, classified in 1880 with officials of manufacturing companies.

l See "Locomotive engineers and firemen".

m Generally reported as blacksmiths, carpenters, iron and steel workers, machinists, painters, wood workers, etc.

n See "Molders" and "Metal workers (not otherwise specified)".

o The unskilled workmen are often reported as common laborers.

p See "Woolen mill operatives" and "Mill and factory operatives (not specified)".

q See "Printers, lithographers, and pressmen".

r See "Print works operatives" and "Mill and factory operatives (not specified)".

s See "Saw and planing mill employes".

t See "Meat and fruit packers, canners, and preservers".

u Includes employes of foundries, furnaces, and rolling mills. See "Metal workers (not otherwise specified)", "Molders", "Nail and tack makers", and "Stove, furnace, and grate makers".

v See "Fish curers and packers".

w Includes textile mill operatives (not otherwise specified), and also mill and factory hands for whom the specific branch of industry was not reported.

x See "Piano and organ makers and tuners".

y See "Iron and steel workers" and "Metal workers (not otherwise specified)".

z See "Musical instrument makers (not otherwise specified)".

aa See "Compositors" and "Electrotypers and stereotypers".

bb See "Cotton mill operatives" and "Mill and factory operatives (not specified)".

cc See "Door, sash, and blind makers".

dd See "Sewing machine operators", "Shirt, collar, and cuff makers", and "Tailors and tailoresses".

ee Generally reported as cabinet makers, iron and steel workers, machinists, wood workers, etc.

ff See "Seamstresses", "Shirt, collar, and cuff makers", and "Tailors and tailoresses".

gg See "Seamstresses" and "Sewing machine operators".

hh See "Mill and factory operatives (not specified)".

ii See "Carpet makers", "Hosiery and knitting mill operatives", and "Mill and factory operatives (not specified)".

STATISTICS OF POPULATION.

TABLE 3.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN EACH SPECIFIED

OCCUPATIONS.	ALABAMA.		ARIZONA.		ARKANSAS.		CALIFORNIA.		COLORADO.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
1 All occupations.....	411,627	129,975	24,847	1,569	299,035	48,173	483,622	60,543	172,796	19,147
2 Agriculture, fisheries, and mining.....	299,861	80,991	10,427	101	228,432	27,924	157,900	3,052	58,548	695
3 Agricultural laborers (a).....	118,798	67,869	1,502	14	69,803	17,875	51,532	267	9,926	55
4 Apirists.....	3	12	12	15	15	247	2	18	4	4
5 Dairymen and dairywomen.....	164	28	25	1	96	17	4,253	61	382	19
6 Farmers, planters, and overseers (a).....	168,791	13,074	2,121	51	155,472	9,991	59,356	2,452	19,697	537
7 Fishermen and oystermen (a).....	391	6	1	1	182	2	1,921	25	13	13
8 Gardeners, florists, nurserymen, and vine growers.....	705	46	134	1	397	26	5,298	106	854	22
9 Lumbermen and raftsmen.....	1,032	3	67	1,039	3,972	391	3,972	391	391	2
10 Miners (coal).....	5,085	9	298	500	674	3,589	674	3,589	674	2
11 Miners (not otherwise specified).....	2,881	1	3,560	274	21,291	19	16,471	5	16,471	5
12 Quarrymen.....	434	24	52	596	893	1	893	1	893	1
13 Stock raisers, herders, and drovers.....	149	2	2,679	156	10	5,863	110	5,247	50	50
14 Wood choppers.....	1,224	1	298	438	8	2,825	4	1,057	10	10
15 Other agricultural pursuits (a).....	204	13	4	8	3	157	6	10	10	10
16 Professional service.....	9,180	2,772	928	167	8,764	1,919	20,921	8,895	7,458	2,372
17 Actors.....	20	8	4	11	4	443	223	154	129	129
18 Architects.....	78	7	7	30	434	1	164	164	164	164
19 Artists and teachers of art.....	59	72	3	51	554	139	169	169	169	169
20 Authors and literary and scientific persons.....	28	10	7	13	4	241	109	51	24	24
21 Chemists, assayers, and metallurgists.....	30	48	8	8	270	2	222	1	222	1
22 Clergymen.....	1,846	10	49	1,896	3	1,896	35	581	15	15
23 Dentists.....	212	22	133	700	16	700	16	151	7	7
24 Designers, draftsmen, and inventors.....	21	2	8	275	1	275	1	64	64	64
25 Engineers (civil, mechanical, electrical, and mining) and surveyors.....	465	100	225	1,953	11	1,953	11	1,085	1,085	1,085
26 Journalists.....	186	8	36	169	2	896	51	304	14	14
27 Lawyers.....	1,311	2	158	1,082	257	3,217	11	1,260	6	6
28 Musicians and teachers of music.....	151	284	57	160	8	1,284	1,426	486	513	513
29 Officers of United States army and navy.....	11	82	19	8	106	28	28	28	28	28
30 Officials (government) (a).....	993	79	151	826	50	2,654	138	988	46	46
31 Physicians and surgeons.....	1,826	20	89	2,264	25	2,844	275	907	59	59
32 Professors in colleges and universities.....	76	13	3	16	2	100	19	40	3	3
33 Teachers.....	1,789	2,256	86	1,872	1,514	1,964	5,990	555	1,574	1,574
34 Theatrical managers, showmen, etc.....	62	10	20	66	1	1,964	6	216	5	5
35 Veterinary surgeons.....	15	4	15	15	3	175	56	56	56	56
36 Other professional service.....	1	3	1	3	1	34	27	7	7	7
37 Domestic and personal service.....	34,840	38,640	7,371	20,764	15,628	110,102	26,958	32,656	10,296	10,296
38 Barbers and hairdressers.....	642	4	109	524	7	3,083	165	974	43	43
39 Bartenders.....	502	1	112	339	4	2,596	4	775	775	775
40 Boarding and lodging house keepers.....	138	486	25	160	339	1,267	339	890	890	890
41 Engineers and firemen (not locomotive).....	1,442	230	60	1,084	130	4,112	2	1,783	2	2
42 Hotel keepers.....	238	84	13	364	130	2,015	319	556	117	117
43 Housekeepers and stewards (a).....	54	1,338	7	19	729	418	2,100	67	638	638
44 Hunters, trappers, guides, and scouts.....	19	20	10	40	8	299	6	41	41	41
45 Janitors.....	72	6	1	58	3	567	70	227	227	227
46 Laborers (not specified) (a).....	25,218	5,038	3,694	14,534	1,369	58,022	399	20,662	69	69
47 Launderers and laundresses.....	220	10,567	269	144	3,207	7,795	1,507	1,069	729	729
48 Nurses and midwives.....	55	456	5	15	203	279	1,581	56	383	383
49 Restaurant keepers.....	113	41	48	108	19	919	124	237	69	69
50 Saloon keepers.....	275	4	163	281	8	4,790	125	1,250	15	15
51 Servants.....	4,865	20,598	709	2,435	9,605	19,880	19,186	3,381	7,288	7,288
52 Sextons.....	58	1	2	31	121	121	27	27	27	27
53 Soldiers, sailors, and marines (United States) (a).....	118	1,860	91	91	1,939	1,939	612	612	612	612
54 Watchmen, policemen, and detectives.....	730	1	28	431	1	2,011	1	517	1	1
55 Other domestic and personal service.....	81	15	11	106	8	575	102	83	21	21
56 Trade and transportation.....	35,388	911	3,705	21,372	485	95,843	4,943	33,779	1,759	1,759
57 Agents (claim, commission, real estate, insurance, etc.) and collectors.....	1,506	31	111	1,047	24	6,075	153	2,824	65	65
58 Auctioneers.....	32	1	1	15	2	121	39	39	39	39
59 Bankers and brokers (money and stocks).....	248	4	45	137	2	2,433	126	603	17	17
60 Boatmen and canalmen.....	222	1	1	56	193	14	14	14	14	14
61 Bookkeepers and accountants (a).....	1,248	46	151	836	53	5,468	609	1,667	180	180
62 Brokers (commercial).....	127	7	23	23	138	134	2	62	62	62
63 Clerks and copyists (a).....	5,052	254	349	2,709	2	15,815	1,112	5,003	548	548
64 Commercial travelers.....	333	3	16	345	1	1,166	18	401	15	15
65 Draymen, hackmen, teamsters, etc.....	3,908	9	676	2,416	1	11,571	11	5,803	3	3
66 Foremen and overseers.....	482	2	75	297	2	791	6	738	2	2
67 Hostlers.....	437	53	277	1,990	7	1,990	542	542	542	542
68 Hucksters and peddlers.....	402	38	28	1,741	41	1,741	273	273	273	273
69 Livery stable keepers.....	201	44	228	1,120	4	1,120	455	455	455	455
70 Locomotive engineers and firemen (a).....	1,127	188	605	1,511	2	1,511	1,591	1,591	1,591	1,591
71 Merchants and dealers in drugs and chemicals (retail).....	400	33	528	1,484	5	1,484	586	586	586	586
72 Merchants and dealers in dry goods (retail).....	768	17	37	702	4	730	48	298	10	10
73 Merchants and dealers in groceries (retail).....	1,128	82	84	848	15	3,009	127	897	36	36
74 Merchants and dealers in wines and liquors (retail).....	56	7	7	46	17	491	111	111	111	111
75 Merchants and dealers in wines and liquors (wholesale).....	23	6	17	17	2	247	2	38	1	1

a See explanatory notes in Table 2.

OCCUPATION, CLASSIFIED BY SEX, BY STATES AND TERRITORIES: 1890.

CONNECTICUT.		DELAWARE.		DIST. OF COLUMBIA.		FLORIDA.		GEORGIA.		IDAHO.		ILLINOIS.		
Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
245,634	71,380	53,938	10,348	68,992	32,127	110,404	26,423	508,790	159,923	33,278	1,894	1,153,249	200,310	1
47,909	767	18,395	807	1,829	57	56,420	9,778	347,601	70,527	18,612	202	443,559	12,929	2
15,131	62	7,951	53	567	15	16,783	6,779	154,541	59,489	2,847	15	125,137	827	3
7	12	2	15	177	17	17	1	5	79	42	7	159	5	4
64	683	12	233	270	5	47	4	137	10,810	137	167	554	35	5
27,664	1,317	9,628	1	98	20	35,241	2,955	179,123	15	8,467	1	285,644	11,885	6
1,441	8	408	4	627	20	938	8	13	34	13	4	757	2	7
128	17	199	4	20	20	625	16	766	120	120	4	4,460	144	8
70	28	17	8	26	26	819	2	744	205	205	8	521	19	9
163	14	28	1	10	7	337	3	130	5,200	1	1	21,370	825	10
1,529	1	64	1	26	1	4	10	355	4	4	2	1,981	2	12
39	1	8	1	26	1	330	3	109	7	1,545	8	1,445	3	13
353	1	63	1	7	1	719	10	1,670	5	168	1	626	7	14
3	1	1	1	1	1	515	10	8,663	85	1	1	80	1	15
7,509	4,976	1,505	708	5,689	1,619	4,243	1,206	11,907	4,062	1,004	291	41,176	21,946	16
58	30	4	2	51	21	2	2	24	5	2	5	446	332	17
114	1	10	2	145	31	31	31	85	1	2	2	741	2	18
185	187	10	42	115	143	33	34	99	79	7	7	1,031	819	19
100	71	9	4	157	29	13	7	41	26	2	1	277	189	20
61	7	7	4	46	29	18	7	21	22	22	1	249	1	21
1,166	26	264	4	384	6	919	8	2,517	8	79	1	5,066	141	22
330	2	47	9	152	1	134	1	280	2	29	1	1,108	34	23
280	11	62	1	227	2	11	1	29	1	1	1	735	14	24
698	146	146	1	443	1	257	1	428	109	109	1	2,252	19	25
289	9	48	1	249	23	108	7	309	5	33	1	1,473	76	26
832	1	176	1	1,401	7	574	1	1,730	1	176	1	5,769	20	27
420	542	56	97	266	231	56	138	190	444	22	36	2,022	2,671	28
30	2	2	2	260	2	34	2	21	64	64	2	42	2	29
821	79	191	8	714	53	689	54	1,478	53	161	9	4,685	322	30
1,089	89	233	12	689	40	632	17	2,383	42	112	5	6,207	387	31
105	14	8	1	40	2	18	2	83	10	1	1	262	28	32
667	3,891	184	526	259	1,056	667	934	2,087	3,354	121	220	6,536	16,786	33
182	8	33	1	86	3	30	1	62	2	60	6	1,510	69	34
60	14	14	1	23	1	15	1	34	2	1	1	680	1	35
14	15	1	1	2	1	2	1	6	2	2	2	79	35	36
35,166	24,907	10,313	5,909	19,143	20,580	19,473	12,522	49,395	71,457	5,788	930	175,161	92,944	37
1,138	42	261	7	586	36	347	7	985	20	106	2	6,293	240	38
836	515	99	101	329	1	188	295	605	728	134	50	4,087	17	39
159	1	13	2	42	287	87	59	179	3	94	18	654	2,409	40
1,959	50	468	2	599	14	592	59	1,741	111	208	18	10,278	6	41
433	2,264	88	493	98	470	149	288	275	7	118	66	1,760	278	42
135	4	22	6	62	20	33	1	81	9	7	30	272	3,872	43
382	19	39	10	231	20	111	3	9	9	30	9	71	104	44
23,793	565	8,148	74	231	357	29	1,309	153	7,110	9	21	1,732	104	45
410	1,375	52	345	214	5,632	14,874	4,570	35,238	29,957	3,695	58	119,051	1,078	46
133	1,110	8	156	156	660	160	187	280	705	176	2	1,582	6,206	47
173	26	38	6	26	68	26	34	90	111	2	36	407	2,446	48
1,127	28	109	9	339	22	113	7	176	19	3	7	1,379	178	49
2,872	18,833	658	4,697	237	7	137	7	298	274	5	5	7,488	139	50
127	24	658	4,697	4,294	12,997	1,736	5,734	7,335	31,320	693	667	12,683	75,713	51
101	5	67	20	67	20	20	20	86	1	1	1	279	52	52
1,269	1	605	451	605	451	451	451	211	236	236	236	201	53	53
115	78	1,020	376	1,020	376	376	376	1,520	4	30	2	6,258	8	54
44,457	4,926	71	16	71	16	44	18	133	42	2	2	686	249	55
2,060	73	8,331	714	23,900	4,991	14,627	406	53,054	1,716	4,273	85	227,246	19,458	56
31	16	347	10	1,060	35	683	9	2,275	44	137	5	14,424	450	57
285	27	10	20	20	1	14	1	24	4	1	1	218	40	58
122	49	27	144	144	1	92	1	321	17	29	2	2,080	3	59
2,679	705	213	71	71	106	366	27	118	118	17	7	304	3	60
63	9	71	3,508	522	106	493	118	2,017	118	127	7	10,470	2,844	61
7,494	1,247	8,988	3,508	71	3,508	9	118	157	419	157	25	295	62	62
784	8	115	4	8,988	3,508	2,028	118	7,240	3	464	1	37,998	6,795	63
5,632	1	3,330	1	115	4	115	4	1,097	9	35	1	5,220	75	64
416	17	667	1	74	1	1,500	202	5,688	2	570	19	25,644	19	65
1,141	207	77	3	150	3	202	5	529	123	123	1	3,174	100	66
1,268	10	458	3	150	3	150	3	720	37	37	5	3,224	135	67
478	2	397	13	145	5	145	5	528	161	161	1	1,794	3	68
712	245	93	185	99	185	99	185	317	282	66	2	5,234	70	69
543	14	140	3	243	5	243	5	1,977	513	64	2	3,221	57	71
381	9	92	25	98	18	171	7	883	21	37	5	2,837	100	72
1,843	65	355	38	916	150	522	21	1,807	87	56	1	7,385	238	73
146	4	29	1	44	2	26	5	73	1	19	1	371	1	74
60	4	4	1	20	1	5	1	48	1	8	1	276	1	75

STATISTICS OF POPULATION.

TABLE 3.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN EACH SPECIFIED

OCCUPATIONS.	ALABAMA.		ARIZONA.		ARKANSAS.		CALIFORNIA.		COLORADO.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Trade and transportation—Continued.										
76 Merchants and dealers, not specified (retail).....	5,265	167	500	8	4,051	65	15,123	516	3,829	88
77 Merchants and dealers (wholesale), importers, and shipping merchants.....	229	3	7	—	89	—	887	4	270	2
78 Messengers and errand and office boys.....	387	7	8	—	103	2	943	18	224	18
79 Newspaper carriers and newsboys.....	35	—	3	—	22	—	184	1	47	—
80 Officials of banks and of insurance, trade, transportation, trust, and other companies. (a)	541	1	84	—	173	1	1,427	12	980	4
81 Packers and shippers.....	46	4	119	—	23	—	512	76	114	8
82 Pilots.....	60	—	1	—	25	—	82	—	4	—
83 Porters and helpers (in stores and warehouses)...	685	2	7	—	282	—	709	7	124	—
84 Sailors (a).....	282	1	12	—	95	—	3,954	2	44	—
85 Salesmen and saleswomen.....	2,040	136	174	3	1,667	100	4,961	936	1,751	309
86 Steam railroad employes (not otherwise specified). (a)	7,250	24	780	3	3,034	4	7,556	12	7,904	17
87 Stenographers and typewriters.....	78	46	12	1	36	41	359	793	206	332
88 Street railway employes.....	140	—	—	—	88	—	1,627	1	408	—
89 Telegraph and telephone operators.....	436	31	76	4	308	27	847	289	603	94
90 Telegraph and telephone linemen and electric light and power company employes.....	115	—	4	—	32	—	142	1	215	—
91 Undertakers.....	47	—	5	—	45	—	243	2	59	—
92 Weighers, gaugers, and measurers.....	52	—	1	—	14	—	87	3	81	—
93 Other persons in trade and transportation.....	11	2	—	—	10	2	110	2	81	1
94 Manufacturing and mechanical industries.....	32,358	6,061	2,416	317	19,703	2,217	98,766	16,695	35,355	4,025
95 Agricultural implement makers (not otherwise classified). (a)	18	—	—	—	—	—	14	—	—	—
96 Apprentices (blacksmiths).....	36	—	3	—	12	—	173	—	31	—
97 Apprentices (boot and shoe makers).....	2	—	—	—	—	—	29	3	2	—
98 Apprentices (carpenters and joiners).....	40	—	3	—	17	—	166	—	22	—
99 Apprentices (carriage and wagon makers).....	1	—	—	—	1	—	11	—	2	—
100 Apprentices (dressmakers).....	—	3	—	—	—	4	—	116	—	14
101 Apprentices (leather curriers, etc.).....	2	—	1	—	2	—	13	—	—	—
102 Apprentices (machinists).....	54	—	4	—	4	—	195	—	51	—
103 Apprentices (masons).....	8	—	—	—	2	—	25	—	14	—
104 Apprentices (milliners).....	—	17	—	—	—	1	—	23	—	7
105 Apprentices (painters).....	14	—	2	—	2	—	62	—	15	—
106 Apprentices (plumbers).....	14	—	—	—	10	—	168	—	40	—
107 Apprentices (printers).....	23	—	2	—	16	1	110	1	34	4
108 Apprentices (tailors).....	1	2	—	—	1	—	35	14	4	—
109 Apprentices (tinsmiths).....	7	—	2	—	3	—	43	—	5	—
110 Apprentices (not otherwise specified).....	129	4	7	—	48	1	887	71	168	14
111 Artificial flower makers.....	—	—	—	—	—	—	6	12	—	—
112 Bakers.....	225	9	84	3	118	3	2,005	156	591	38
113 Basket makers.....	27	1	—	—	12	—	48	88	1	—
114 Blacksmiths.....	2,253	1	294	—	2,037	—	6,638	8	2,137	—
115 Bleachers, dyers, and scourers.....	53	6	3	—	12	3	135	21	22	4
116 Bone and ivory workers.....	—	—	—	—	—	—	8	—	—	—
117 Bookbinders.....	22	8	2	—	15	7	296	230	89	41
118 Boot and shoe makers and repairers.....	672	11	77	—	378	2	4,270	341	706	5
119 Bottlers and mineral and soda water makers.....	19	1	6	—	5	—	210	1	76	4
120 Box makers (paper).....	—	4	—	—	—	1	10	91	5	8
121 Box makers (wood).....	63	1	—	—	24	—	363	13	27	1
122 Brass workers (not otherwise specified) (a)	13	—	1	—	5	—	214	—	28	—
123 Brewers and maltsters (a)	43	—	20	—	4	—	873	4	254	—
124 Brick and tile makers and terra cotta workers (a)	671	1	43	—	358	—	1,216	—	1,724	—
125 Britannia workers.....	—	—	—	—	—	—	1	—	—	—
126 Broom and brush makers.....	—	—	—	—	—	—	110	5	51	—
127 Builders and contractors.....	703	—	36	—	285	—	1,698	1	1,008	—
128 Butchers.....	512	—	159	1	463	—	4,229	1	1,126	—
129 Butter and cheese makers.....	9	—	—	—	3	—	164	1	24	—
130 Button makers.....	—	—	—	—	—	—	2	—	—	—
131 Cabinet makers.....	106	—	—	—	—	—	840	—	198	—
132 Candle, soap, and tallow makers.....	4	—	6	—	94	—	101	5	21	—
133 Carpenters and joiners.....	6,833	2	530	—	4,372	3	17,105	10	8,100	6
134 Carpet makers (a).....	—	5	—	—	—	7	38	14	17	13
135 Carriage and wagon makers (not otherwise classified). (a)	166	—	12	—	188	—	726	—	225	—
136 Charcoal, coke, and lime burners.....	791	3	3	—	3	—	161	1	135	—
137 Chemical works employes (a)	—	—	—	—	—	—	10	—	—	—
138 Clock and watch makers and repairers.....	106	—	11	—	62	—	476	8	137	1
139 Compositors (a).....	84	14	32	7	85	8	881	313	212	85
140 Confectioners.....	81	5	12	—	82	7	549	102	197	71
141 Coopers.....	147	1	4	—	133	—	928	1	73	—
142 Copper workers.....	24	—	3	—	6	—	81	—	16	—
143 Corset makers.....	—	1	—	—	—	—	4	12	—	—
144 Cotton mill operatives (a).....	960	988	—	—	58	26	67	69	—	5
145 Distillers and rectifiers (a).....	55	—	—	—	31	—	80	—	—	—
146 Door, sash, and blind makers (a)	18	—	—	—	3	—	142	1	6	—
147 Dressmakers.....	—	1,314	—	103	—	679	28	8,856	—	2,304
148 Electroplaters.....	2	—	—	—	—	—	23	—	11	—
149 Electrotypers and stereotypers (a).....	—	—	—	—	1	—	—	—	—	—
150 Engravers.....	13	—	1	—	7	—	181	2	35	1
151 Fertilizer makers (a)	2	—	—	—	—	—	31	—	—	—
152 Fish curers and packers (a)	—	—	—	—	—	—	—	—	—	—
153 Gas works employes (a)	41	—	—	—	6	—	156	—	10	—
154 Glass workers.....	8	—	2	—	4	—	180	—	100	—

a See explanatory notes in Table 2.

OCCUPATIONS.

37

OCCUPATION, CLASSIFIED BY SEX, BY STATES AND TERRITORIES: 1890—Continued.

CONNECTICUT.		DELAWARE.		DIST. OF COLUMBIA.		FLORIDA.		GEORGIA.		IDAHO.		ILLINOIS.	
Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
5,766	183	1,297	81	2,101	188	2,328	76	6,972	226	562	7	29,569	867
293	1	59	1	109	-----	81	-----	307	1	8	-----	2,902	16
559	21	212	3	1,034	22	124	1	776	18	8	-----	4,070	411
82	3	9	-----	93	-----	11	1	75	1	2	-----	529	16
815	4	119	-----	156	1	154	1	575	-----	129	-----	2,727	18
468	623	32	16	10	7	37	3	102	45	60	1	1,597	333
73	-----	55	-----	24	-----	123	-----	72	-----	1	-----	131	-----
168	10	24	-----	465	5	211	5	1,510	7	3	-----	948	12
979	-----	510	-----	171	-----	948	-----	273	-----	19	-----	3,483	84
3,772	1,333	398	221	1,216	561	705	70	3,225	282	98	14	15,771	3,354
3,851	24	1,299	9	367	15	2,236	11	11,251	56	1,209	-----	26,858	118
161	310	33	33	215	233	36	24	243	93	5	8	1,044	2,734
415	2	50	1	639	-----	72	1	368	-----	-----	-----	3,442	2
859	181	177	13	203	45	211	21	654	104	66	7	3,785	548
306	56	32	-----	48	-----	25	-----	182	-----	10	-----	667	84
188	3	62	-----	77	-----	23	-----	67	1	2	-----	577	1
16	-----	8	-----	3	-----	3	-----	47	-----	-----	-----	458	2
48	17	2	1	28	5	13	-----	23	-----	2	-----	257	72
110,593	35,804	15,394	2,710	18,431	4,880	15,641	2,511	46,833	12,161	3,601	386	266,107	53,033
146	-----	1	-----	-----	-----	3	-----	31	-----	-----	-----	1,026	21
76	-----	28	-----	60	-----	7	-----	63	-----	6	-----	257	-----
14	-----	4	-----	7	-----	1	-----	10	-----	-----	-----	66	3
145	-----	48	-----	77	-----	24	-----	109	-----	2	-----	514	2
26	-----	15	-----	4	-----	1	-----	5	-----	-----	-----	74	-----
-----	72	-----	11	-----	72	-----	-----	-----	25	-----	2	-----	333
4	-----	6	-----	-----	-----	-----	-----	3	-----	1	-----	24	-----
339	-----	83	-----	47	-----	20	-----	99	-----	7	-----	693	1
46	-----	5	-----	32	-----	6	-----	38	-----	-----	-----	127	-----
-----	18	-----	4	-----	13	-----	-----	-----	5	-----	-----	-----	118
28	-----	21	-----	31	-----	3	-----	29	-----	-----	-----	235	-----
83	-----	21	-----	80	-----	5	-----	26	-----	-----	-----	322	-----
76	3	41	-----	63	6	13	1	27	2	2	1	344	18
11	1	4	4	14	2	2	-----	17	1	-----	-----	192	145
27	-----	12	-----	31	-----	1	-----	69	-----	-----	-----	149	-----
571	24	256	9	330	12	154	7	284	4	9	1	2,594	154
-----	3	-----	1	-----	3	-----	-----	-----	1	-----	-----	32	23
1,028	45	180	2	510	12	178	13	305	13	41	-----	3,982	181
58	4	50	-----	20	-----	3	-----	49	2	4	-----	199	10
3,487	3	814	-----	730	1	470	-----	2,882	1	424	-----	13,454	6
451	65	91	-----	50	11	15	2	84	15	2	-----	257	24
340	52	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	19	-----
161	97	9	10	338	201	15	4	59	63	-----	-----	963	1,237
2,357	284	349	16	562	4	225	3	1,174	14	110	-----	6,990	694
147	2	13	-----	57	3	9	-----	40	2	6	-----	274	27
349	1,064	-----	-----	-----	6	-----	1	7	62	-----	-----	86	583
172	90	5	-----	13	-----	12	6	46	2	1	-----	935	87
3,953	532	16	-----	41	-----	2	-----	19	-----	4	-----	1,019	21
160	-----	37	-----	72	-----	1	-----	100	-----	54	-----	1,714	-----
809	1	226	-----	532	-----	118	-----	1,119	4	44	-----	4,333	38
394	46	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
79	16	10	-----	15	-----	4	-----	32	-----	-----	-----	785	64
771	-----	291	-----	436	-----	246	-----	645	-----	87	-----	3,163	1
1,588	1	375	-----	577	4	290	-----	782	2	200	-----	8,929	5
150	3	15	-----	10	-----	1	-----	22	3	7	-----	843	10
116	287	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	26	13
519	-----	189	-----	198	-----	62	-----	291	-----	11	-----	3,942	1
94	16	2	-----	8	-----	-----	-----	8	2	-----	-----	303	28
9,528	2	1,956	-----	2,679	-----	3,488	-----	10,105	2	999	-----	43,533	17
144	93	19	5	-----	4	-----	-----	-----	-----	2	-----	308	296
885	4	164	-----	74	-----	59	-----	222	-----	15	-----	2,858	18
77	-----	27	-----	19	-----	117	1	60	-----	53	-----	135	-----
60	4	9	-----	6	-----	-----	-----	25	2	-----	-----	69	62
1,998	558	42	-----	69	-----	47	1	133	8	15	-----	3,001	1,439
328	98	37	12	592	24	66	10	254	26	20	2	1,890	456
230	49	61	10	170	50	48	3	172	18	13	-----	1,157	526
200	-----	69	-----	60	-----	64	-----	600	-----	10	-----	3,915	8
212	-----	11	1	16	-----	4	-----	33	-----	4	-----	167	-----
851	2,570	-----	-----	-----	-----	-----	-----	-----	1	-----	-----	54	476
5,797	5,215	254	339	-----	-----	19	-----	3,364	3,882	-----	-----	121	142
32	-----	2	-----	-----	-----	18	-----	233	-----	1	-----	211	-----
108	-----	75	-----	3	-----	1	-----	23	-----	-----	-----	221	-----
4	5,616	-----	-----	-----	2,542	-----	564	2	2,356	-----	156	45	19,572
800	38	2	-----	8	-----	1	-----	3	-----	-----	-----	250	15
30	-----	-----	-----	40	-----	-----	-----	15	-----	-----	-----	189	2
292	13	6	-----	94	1	1	-----	24	-----	-----	-----	631	18
14	-----	6	-----	8	-----	4	-----	20	-----	-----	-----	25	-----
10	-----	1	-----	2	-----	-----	-----	-----	-----	-----	-----	23	-----
85	-----	15	-----	71	-----	7	-----	58	-----	-----	-----	336	1
124	16	45	-----	11	-----	3	-----	105	-----	2	-----	2,019	54

TABLE 3.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN EACH SPECIFIED

OCCUPATIONS.	ALABAMA.		ARIZONA.		ARKANSAS.		CALIFORNIA.		COLORADO.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Manufacturing and mechanical industries—Cont'd.										
155 Glove makers.....							124	167	6	
156 Gold and silver workers.....	51		16		29		251	5	82	
157 Gunsmiths, locksmiths, and bell hangers.....	70		14		63		268		51	
158 Hair workers.....		3					12	7		2
159 Harness and saddle makers and repairers.....	144	1	58		160		1,513	19	410	
160 Hat and cap makers.....			1		2		95	27	8	1
161 Hosiery and knitting mill operatives (a).....	90	157				17	8	20		
162 Iron and steel workers (a).....	2,782	10	15		97		1,084	6	1,042	
163 Lace and embroidery makers.....		7		1		7	5	72		17
164 Lead and zinc workers.....	3				1		55	2	2	
165 Leather carriers, dressers, finishers, and tanners..	51		5		122		1,039	1	32	
166 Machinists.....	1,341	1	126		766	1	3,953	4	1,383	
167 Manufacturers and officials of manufacturing companies.....	761	3	32		431	1	2,033	4	494	
168 Marble and stone cutters.....	233		15		191		1,192	2	1,092	1
169 Masons (brick and stone).....	1,370	1	213		696		1,914	1	2,725	1
170 Meat and fruit packers, canners, and preservers (a).....	9	2			4	1	291	98	23	3
171 Mechanics (not otherwise specified).....	689		4		415		234		109	
172 Metal workers (not otherwise specified).....	78		44		5		141	2	609	3
173 Mill and factory operatives (not specified) (a).....	730	654	12		174	23	578	77	121	23
174 Millers (flour and grist).....	1,019	2	29		649	1	882	6	288	
175 Milliners.....	3	801		21		387	11	1,520		418
176 Model and pattern makers.....	70				16		251	1	83	
177 Molders.....	377		13		77		1,211	2	356	
178 Musical instrument makers (not otherwise specified) (a).....							4			
179 Nail and tack makers (a).....	2				3		114		12	
180 Oil well employes.....							33		8	
181 Oil works employes.....	83				76		63		49	
182 Painters, glaziers, and varnishers.....	1,214	5	89		802		6,206	24	1,942	4
183 Paper hangers.....	40		3		27		277		102	
184 Paper mill operatives.....							177	13	14	
185 Photographers.....	118	9	21		158	9	671	79	242	19
186 Piano and organ makers and tuners (a).....	20		4		16		201		32	
187 Plasterers.....	305	1	27		197		971	2	907	
188 Plumbers and gas and steam fitters.....	207		11		117		2,306	3	780	1
189 Potters.....	69				74		132		15	
190 Powder and cartridge makers.....							78			
191 Printers, lithographers, and pressmen (a).....	482	16	74	8	391	15	2,532	178	1,123	55
192 Print works operatives (a).....							2			
193 Publishers of books, maps, and newspapers.....	30		3		35		209	2	79	2
194 Roofers and slaters.....	20				7		130		48	
195 Rope and cordage makers.....	13						198	2		
196 Rubber factory operatives.....							22			
197 Sail, awning, and tent makers.....	8		2		4		165	7	12	6
198 Salt works employes.....							22			
199 Saw and planing mill employes (a).....	2,829	21	32		3,662	1	3,313	2	534	
200 Seamstresses (a).....	6	2,398		167	29	970	94	2,118	8	710
201 Sewing machine makers (not otherwise classified) (a).....	1						6		1	
202 Sewing machine operators (a).....		3					94	66		1
203 Ship and boat builders.....	112		5		20		1,166		14	
204 Shirt, collar, and cuff makers (a).....	2	5					543	186	5	7
205 Silk mill operatives (a).....							36	62		
206 Starch makers.....										
207 Steam boiler makers.....	191		21		64		710	3	228	
208 Stove, furnace, and grate makers (a).....	25				32		64		30	
209 Straw workers.....							9	17		
210 Sugar makers and refiners.....							177			
211 Tailors and tailoresses (a).....	230	77	40	6	190	20	4,609	1,010	681	132
212 Tanners and tinware makers.....	240		46		181		1,263	18	441	
213 Tobacco and cigar factory operatives.....	134	5	5		54	5	3,281	88	337	19
214 Tool and cutlery makers (not otherwise classified) (a).....	20		1		37		130		20	
215 Trunk, valise, leather-case, and pocket-book makers.....	18				20		114	9	23	
216 Umbrella and parasol makers.....							8			
217 Upholsterers.....	72	1	11		25		857	17	178	2
218 Well borers.....	17		4		39		224		45	
219 Wheelwrights.....	111		21		49		296		37	
220 Whitewashers.....	47				24		44		13	
221 Wire workers.....	5	2			4		170		7	
222 Wood workers (not otherwise specified).....	245	1	2		246		949	15	215	
223 Woolen mill operatives (a).....	26	26			12	4	368	57		2
224 Other persons in manufacturing and mechanical industries.....	446	47	32		210	2	1,362	132	497	19

a See explanatory notes in Table 2.

39

CONNECTICUT.		DELAWARE.		DIST. OF COLUMBIA.		FLORIDA.		GEORGIA.		IDAHO.		ILLINOIS.	
Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
6	7		2						1			102	148
1,298	176	24	1	41	1	21		69		2		499	61
1,486	67	18		51		17		71		9		685	157
5	22			2	1		3		1			28	46
657	23	80		113		41		325		61		3,241	159
3,798	1,352	5	2	10	1	8	4	4	2	1		195	68
400	812	2	3	2	3	1	5	37	184			195	747
5,304	424	1,281	1	150		44		537		88		8,928	136
26	62		3		15				14			52	212
34	11					1		4				956	80
337		1,008	20	22		3		181	1	7		1,618	3
7,728	9	973		700	1	456		1,706		244		12,784	14
2,642	2	374		178	4	333		1,350	3	89		6,626	29
				323		22		797	2	44		3,042	2
1,577	2	385		1,125		379	2	1,912		112		10,095	7
3,107													
62	6	34	10		1			8		1		846	163
938	1	39		27		150		771		9		559	171
3,333	279	32	1	35	1	7		20	2	1		923	48
1,498	1,265	185	181	30	6	217	9	901	402	19		848	601
360		249		63		196	3	1,197	8	85		2,488	15
6	1,098		181		185		169	3	760		79	16	4,348
452	2	60		55	2	10		40		2		809	4
3,778	2	244		109		34		375		13		5,964	8
1				5		2						82	178
58	38	5		1		2						247	75
28		3				1		98				1	180
4,990	74	892	61	1,270		648		2,003	1	152		88	2
93	1	59		193		11		57		8		18,365	89
996	646	107	51					66	30			941	182
												560	134
284	54	28	2	117	12	99	4	172	11	24		1,235	196
845	42	8		38		11		52				964	16
121		99		533		121		526		27		3,425	1
1,269		105		710	1	39		389		21		4,425	2
106	11	8		29		3		94				903	38
245	292	28		1								18	9
1,156	190	161	16	1,336	312	275	15	842	83	72	3	6,074	365
98	38	4				2							

STATISTICS OF POPULATION.

TABLE 3.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN EACH SPECIFIED

	OCCUPATIONS.	INDIANA.		IOWA.		KANSAS.		KENTUCKY.		LOUISIANA.	
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
1	All occupations.....	639,156	84,902	551,418	80,417	406,839	45,507	506,946	83,378	314,293	108,781
2	Agriculture, fisheries, and mining.....	322,221	8,348	322,296	8,094	249,807	6,715	314,212	11,873	185,266	55,464
3	Agricultural laborers (a).....	84,074	564	73,753	403	47,965	234	103,136	1,871	97,041	49,055
4	Apiarists.....	61		155	7	23		15		14	
5	Dairymen and dairywomen.....	490	40	412	78	389	21	372	85	419	77
6	Farmers, planters, and overseers (a).....	225,194	7,644	236,338	7,515	192,452	6,387	201,902	9,880	81,930	6,168
7	Fishermen and oystermen (a).....	314		216	1	119		252	1	1,557	7
8	Gardeners, florists, nurserymen, and vine growers.....	1,904	95	1,828	72	1,416	49	1,183	81	1,315	99
9	Lumbermen and raftsmen.....	904		214	1	148		948	2	1,399	2
10	Miners (coal).....	6,278	1	6,748	7	4,438	7	4,128			
11	Miners (not otherwise specified).....	199		890	3	1,019		963		70	
12	Quarrymen.....	1,548		368		340		549	1	5	
13	Stock raisers, herders, and drovers.....	431	1	941	7	1,551	14	240		199	14
14	Wood choppers.....	722		276		37		504		1,134	5
15	Other agricultural pursuits (a).....	102	3	57		20	3	20	2	183	37
16	Professional service.....	24,104	10,415	18,962	18,800	16,840	8,599	16,135	6,015	7,196	2,830
17	Actors.....	89	61	62	34	39	19	25	19	42	51
18	Architects.....	107		110		08		95		66	
19	Artists and teachers of art.....	260	297	195	344	142	204	187	141	69	45
20	Authors and literary and scientific persons.....	76	72	80	66	65	36	48	24	19	9
21	Chemists, assayers, and metallurgists.....	57		15		24		40	1	37	1
22	Clergymen.....	3,122	38	3,219	34	2,634	31	2,548	11	1,163	7
23	Dentists.....	575	19	540	13	349	12	304		182	1
24	Designers, draftsmen, and inventors.....	169	3	58	1	52		68		29	
25	Engineers (civil, mechanical, electrical, and mining) and surveyors.....	751	1	648	5	464		707	2	512	
26	Journalists.....	651	28	709	26	587	32	332	10	198	4
27	Lawyers.....	3,199	9	2,779	21	2,944	20	2,353	3	1,070	1
28	Musicians and teachers of music.....	660	1,321	490	1,349	371	897	364	608	350	265
29	Officers of United States army and navy.....	16		7		152		19		28	
30	Officials (government) (a).....	2,597	181	2,175	243	1,962	183	1,978	126	942	68
31	Physicians and surgeons.....	4,571	143	2,923	128	2,673	100	3,256	67	1,250	25
32	Professors in colleges and universities.....	216	38	165	21	161	18	114	11	92	22
33	Teachers.....	5,818	8,153	3,610	16,502	3,455	7,029	2,892	4,984	1,018	2,314
34	Theatrical managers, showmen, etc.....	853	40	663	9	399	11	729	3	99	13
35	Veterinary surgeons.....	305		482		229		73		26	
36	Other professional service.....	12	11	32	4	40	7	3	5	6	4
37	Domestic and personal service.....	88,076	39,042	52,916	33,016	35,225	18,820	51,964	46,305	51,217	38,851
38	Barbers and hairdressers.....	3,288	82	2,387	44	1,729	24	1,362	33	992	56
39	Bartenders.....	1,752	6	411	1	48		947	3	957	3
40	Boarding and lodging house keepers.....	280	707	277	497	231	383	232	615	91	510
41	Engineers and firemen (not locomotive).....	4,974	3	2,132	1	1,767		2,530		1,602	1
42	Hotel keepers.....	931	162	1,454	121	1,115	128	508	104	142	74
43	Housekeepers and stewards (a).....	80	2,438	62	1,813	46	1,211	92	1,812	135	1,331
44	Hunters, trappers, guides, and scouts.....	23		35		18		11		132	
45	Janitors.....	433	49	437	16	332	6	275	33	74	23
46	Laborers (not specified) (a).....	67,182	501	39,486	298	24,049	148	36,763	659	40,397	5,838
47	Laundresses and laundresses.....	367	3,178	278	1,570	317	1,889	222	8,895	248	9,681
48	Nurses and midwives.....	99	595	116	598	101	343	93	553	41	510
49	Restaurant keepers.....	397	27	987	78	642	78	145	22	149	39
50	Saloon keepers.....	2,992	51	1,093	15	261	1	1,082	38	694	35
51	Servants.....	3,331	31,158	2,600	27,917	2,372	14,576	6,009	33,396	4,175	20,730
52	Sextons.....	125		100		50	1	94	1	53	3
53	Soldiers, sailors, and marines (United States) (a).....	54		10		1,291		87		100	
54	Watchmen, policemen, and detectives.....	1,585	30	882	1	730	1	1,360	102	1,147	2
55	Other domestic and personal service.....	183	45	169	41	126	31	152	39	88	15
56	Trade and transportation.....	87,059	5,285	83,666	4,431	58,804	2,802	57,940	3,205	38,483	2,103
57	Agents (claim, commission, real estate, insurance, etc.) and collectors.....	5,016	213	5,599	128	4,363	108	2,911	117	1,656	38
58	Auctioneers.....	109		120		75		59		88	
59	Bankers and brokers (money and stocks).....	463	4	1,138	23	1,169	18	318	8	213	10
60	Boatmen and canalmen.....	164		83		19		212		268	1
61	Bookkeepers and accountants (a).....	2,764	719	2,476	667	1,532	335	2,239	261	1,543	66
62	Brokers (commercial).....	72		49		41		113		219	
63	Clerks and copyists (a).....	11,014	1,959	9,804	1,591	6,726	963	8,368	926	9,884	376
64	Commercial travelers.....	2,394	26	2,729	29	1,131	6	1,067	5	457	8
65	Draymen, hackmen, teamsters, etc.....	10,282		7,909	5	4,415	3	6,761	1	3,737	9
66	Foremen and overseers.....	1,060	10	1,630	9	1,363	5	560	3	241	5
67	Hostlers.....	1,660		1,184		822		1,391	4	1,051	1
68	Hucksters and peddlers.....	1,469	21	845	21	377	6	796	39	783	128
69	Livery stable keepers.....	1,072	1	1,375	2	1,292	3	505		118	1
70	Locomotive engineers and firemen (a).....	3,237		3,373	1	2,379		1,382		441	
71	Merchants and dealers in drugs and chemicals (retail).....	2,116	28	1,778	27	1,545	18	1,110	21	514	10
72	Merchants and dealers in dry goods (retail).....	1,753	40	1,707	33	1,264	19	1,462	72	395	53
73	Merchants and dealers in groceries (retail).....	4,264	148	2,945	42	2,270	33	2,822	166	1,550	296
74	Merchants and dealers in wines and liquors (retail).....	79		46	1	17		125	1	58	1
75	Merchants and dealers in wines and liquors (wholesale).....	55	2	33		6		51	1	18	

a See explanatory notes in Table 2.

OCCUPATION, CLASSIFIED BY SEX, BY STATES AND TERRITORIES: 1890—Continued.

MAINE.		MARYLAND.		MASSACHUSETTS.		MICHIGAN.		MINNESOTA.		MISSISSIPPI.		MISSOURI.		
Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
212, 033	45, 063	308, 515	84, 752	719, 166	263, 278	663, 627	95, 948	403, 461	65, 625	337, 931	124, 808	771, 554	112, 825	1
84, 831	1, 465	102, 669	2, 727	80, 163	937	302, 398	6, 103	191, 596	3, 826	270, 684	89, 365	392, 245	12, 420	2
16, 965	93	44, 570	1, 041	27, 359	129	71, 818	551	51, 701	457	107, 368	73, 152	91, 666	775	3
7	7	9	82	13	24	102	2	43	4	4	34	80	5	4
45	1, 352	410	1, 508	147	718	289	18	463	54	78	16, 074	976	67	5
59, 535	2	9, 179	17	36, 421	7	192, 803	5, 455	180, 607	3, 261	180, 811	384	279, 199	11, 417	6
3, 664	9	1, 733	68	9, 247	56	1, 619	2	373	1	384	41	348	10	7
439	1	241	42	4, 024	204	2, 525	64	1, 033	42	519	642	2, 575	131	8
2, 313	2	3, 323	2	204	43	11, 465	2	3, 673	4	642	7	1, 189	1	9
28	1	770	8	282	3	788	2	1, 858	1	7	57	5, 591	11	10
1, 318	1	804	1	1, 802	1	18, 165	2	298	6	87	6	7, 557	10	11
40	1	153	1	136	1	294	5	543	6	87	6	1, 146	1	12
463	1	331	1	408	1	2, 118	2	377	1	443	1	788	1	13
14	1	70	8	78	3	112	2	27	1	341	57	1, 283	1	14
6, 007	6, 357	10, 144	4, 432	26, 248	16, 999	20, 445	13, 045	14, 060	8, 707	7, 587	3, 275	27, 963	11, 502	15
11	20	89	46	312	197	185	86	111	81	8	2	207	134	17
27	177	76	150	617	8	179	368	241	1	17	45	433	1	18
72	65	142	37	803	864	308	113	261	239	39	16	402	347	19
34	16	77	81	852	539	113	98	83	50	11	16	139	65	20
16	12	1, 475	14	289	7	117	2	37	11	11	127	127	21	21
956	3	292	3	2, 798	85	2, 981	44	1, 905	30	1, 803	7	3, 841	33	22
275	3	127	3	972	11	547	16	342	15	139	7	586	16	23
56	3	718	3	1, 000	40	224	3	170	3	7	161	253	3	24
356	15	262	7	3, 012	16	1, 477	4	1, 241	1	161	7	1, 472	3	25
172	1	1, 484	498	1, 201	98	605	31	550	16	135	7	867	26	26
750	474	48	61	2, 587	2	2, 638	10	2, 135	7	898	231	8, 951	1	27
202	96	1, 184	62	1, 986	2, 401	779	1, 344	603	664	78	231	1, 019	1, 370	28
24	75	1, 700	62	92	263	41	171	44	82	3	84	27	150	29
926	10	136	9	3, 859	470	2, 795	194	2, 048	112	739	13	3, 376	120	30
1, 046	5, 406	1, 305	3, 527	3, 378	96	3, 385	15	1, 401	20	1, 658	4	5, 253	20	31
53	1	238	1	244	11, 787	188	10, 632	132	7, 371	63	2, 864	213	9, 181	32
848	1	84	8	1, 779	34	2, 786	18	2, 085	5	1, 772	1	4, 821	15	33
123	2	10	8	715	86	724	9	370	10	31	1	754	15	34
28	14, 183	54, 455	47, 846	202	86	899	24	225	2	12	1	195	15	35
10	12	1, 547	66	50	165	24	113	76	10	2	1	27	15	36
26, 908	12	798	11	26, 908	86, 183	24	45, 295	106, 915	36, 717	21, 507	28, 267	91, 005	56, 291	37
859	314	119	690	4, 366	165	2, 797	113	1, 544	32	442	5	3, 644	131	38
72	55	385	41	1, 979	11	1, 887	935	1, 387	1	267	1	2, 356	2	39
205	1	2, 234	2	683	2, 816	476	935	367	630	110	362	605	1, 490	40
1, 382	82	2, 385	41	6, 933	1	7, 097	163	3, 235	102	641	110	5, 407	314	41
484	1, 996	209	2, 098	1, 055	166	1, 775	137	1, 191	102	194	110	783	314	42
103	2	24	95	434	6, 647	137	2, 352	77	1, 448	34	827	177	2, 469	43
82	128	36, 740	1, 288	16	126	126	41	96	20	20	5	67	65	44
137	571	349	9, 189	1, 883	124	577	718	606	23	36	5	755	65	45
20, 693	89	88	1, 081	63, 062	783	80, 727	465	40, 548	188	15, 561	3, 538	59, 872	722	46
216	602	400	53	1, 640	5, 535	465	2, 065	341	1, 844	125	6, 782	719	8, 633	47
89	17	1, 504	118	455	3, 745	269	1, 109	103	1, 009	29	253	187	1, 116	48
114	9	7, 117	33, 017	876	153	338	46	305	45	24	673	82	49	49
223	10, 452	178	2	760	40	2, 930	50	1, 827	13	277	4	2, 650	37	50
1, 303	42	178	2	9, 367	65, 630	4, 365	37, 632	4, 476	31, 314	3, 214	16, 325	9, 416	41, 132	51
42	189	491	4	245	1	161	1	73	1	41	1	123	1	52
189	642	1, 779	4	398	3	894	2	333	1	17	1	452	4	53
642	73	209	91	5, 040	8	2, 142	69	1, 338	60	343	29	2, 731	93	54
73	34, 850	63, 233	5, 746	563	360	252	32	129	60	93	29	888	93	55
1, 196	49	2, 627	48	174, 239	22, 274	95, 991	7, 285	68, 185	4, 271	21, 817	600	132, 083	7, 963	56
8	64	263	6	8, 037	322	5, 575	229	6, 144	106	903	17	7, 746	196	57
141	1	397	221	187	2	78	28	72	12	5	2	139	1	58
174	467	2, 203	221	1, 104	2	752	28	785	12	74	2	1, 250	1	59
1, 034	39	140	1, 011	190	5, 526	234	1, 130	124	651	873	29	5, 134	697	60
4, 365	954	12, 194	1, 011	9, 177	5, 526	4, 272	1, 130	3, 421	651	873	29	5, 134	697	61
633	10	938	8	444	5, 200	13, 020	2, 795	85	1, 592	30	158	181	1	62
4, 330	2	7, 289	7	27, 417	5, 200	2, 921	30	10, 431	1, 592	3, 001	158	21, 180	1, 974	63
232	8	394	22	3, 658	39	11, 857	4	7, 980	5	1, 828	5	3, 497	24	64
836	8	1, 339	2	1, 236	81	1, 256	16	1, 147	11	248	5	16, 616	14	65
631	8	1, 750	119	4, 740	92	1, 385	34	976	20	374	1	2, 174	78	66
394	276	1, 184	19	4, 157	92	1, 804	34	748	20	186	21	1, 685	78	67
538	9	767	19	1, 211	2	1, 005	2	607	2	184	2	1, 361	78	68
430	36	586	85	2, 170	35	2, 743	32	2, 244	15	565	5	3, 238	27	69
452	32	1, 890	555	1, 957	35	1, 861	32	1, 044	15	378	5	2, 561	27	70
1, 778	32	1, 890	555	1, 241	201	1, 307	59	670	14	607	14	2, 123	85	72
26	1	173	6	6, 144	295	3, 786	123	1, 678	30	570	58	4, 560	153	73
12	1	91	2	571	3	90	74	70	1	28	1	160	1	74
				153	3	74		60		6		129	1	75

STATISTICS OF POPULATION.

TABLE 3.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN EACH SPECIFIED

OCCUPATIONS.	INDIANA.		IOWA.		KANSAS.		KENTUCKY.		LOUISIANA.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Trade and transportation—Continued.										
76 Merchants and dealers, not specified (retail).....	12,460	218	14,692	200	10,425	144	8,476	236	5,354	407
77 Merchants and dealers (wholesale), importers, and shipping merchants.....	540	2	511	2	301	3	340	1	368	4
78 Messengers and errand and office boys.....	529	22	325	8	218	12	691	21	490	4
79 Newspaper carriers and newsboys.....	127	1	47	1	40	—	159	3	86	1
80 Officials of banks and of insurance, trade, transportation, trust, and other companies. (a)	860	3	1,265	25	1,083	20	656	2	319	2
81 Packers and shippers.....	414	59	531	68	249	15	274	42	170	28
82 Pilots.....	110	—	89	—	9	—	145	—	218	—
83 Porters and helpers (in stores and warehouses).....	297	10	90	—	110	1	830	5	473	5
84 Sailors (a).....	399	1	148	—	25	—	299	—	1,457	1
85 Salesmen and saleswomen.....	6,246	1,084	4,814	745	3,636	580	3,470	840	1,998	408
86 Steam railroad employes (not otherwise specified). (a)	12,379	39	13,576	25	9,684	21	8,236	31	3,094	16
87 Stenographers and typewriters.....	268	536	305	593	274	384	185	322	103	96
88 Street railway employes.....	542	—	337	—	362	—	663	1	366	—
89 Telegraph and telephone operators.....	2,077	140	1,667	182	1,248	102	685	72	809	26
90 Telegraph and telephone linemen and electric light and power company employes.....	262	10	176	—	123	1	162	—	79	—
91 Undertakers.....	405	3	158	1	128	—	248	1	60	5
92 Weighers, gaugers, and measurers.....	68	—	81	—	58	—	90	—	141	4
93 Other persons in trade and transportation.....	33	6	31	2	25	2	39	3	214	8
94 Manufacturing and mechanical industries.....	117,696	21,812	73,578	16,076	46,103	8,571	66,695	15,980	32,131	9,533
95 Agricultural implement makers (not otherwise classified). (a)	273	—	82	—	18	—	83	—	5	—
96 Apprentices (blacksmiths).....	117	—	116	—	76	—	74	—	95	—
97 Apprentices (boot and shoe makers).....	8	—	8	—	8	—	29	1	23	—
98 Apprentices (carpenters and joiners).....	114	—	117	—	80	—	106	—	110	—
99 Apprentices (carriage and wagon makers).....	23	—	18	—	10	—	7	—	5	—
100 Apprentices (dressmakers).....	—	43	—	74	—	81	—	75	—	28
101 Apprentices (leather curriers, etc.).....	8	—	9	—	8	—	20	—	3	—
102 Apprentices (machinists).....	229	—	101	—	78	—	123	—	51	—
103 Apprentices (masons).....	23	—	19	—	16	—	12	—	27	—
104 Apprentices (milliners).....	—	20	—	39	—	24	—	13	—	11
105 Apprentices (painters).....	54	—	33	—	16	—	24	—	16	—
106 Apprentices (plumbers).....	55	—	24	—	13	—	36	—	12	—
107 Apprentices (printers).....	84	2	107	2	45	5	42	1	27	—
108 Apprentices (tailors).....	45	4	25	3	7	—	85	16	7	2
109 Apprentices (tinsmiths).....	41	—	32	—	16	—	38	—	16	—
110 Apprentices (not otherwise specified).....	811	31	469	22	233	20	605	25	521	19
111 Artificial flower makers.....	—	10	—	1	—	2	—	1	—	10
112 Bakers.....	1,416	36	838	44	686	16	742	36	1,082	68
113 Basket makers.....	142	32	29	7	12	2	91	6	31	10
114 Blacksmiths.....	8,142	—	5,645	2	3,863	1	5,143	3	2,017	2
115 Bleachers, dyers, and scourers.....	101	3	71	8	40	8	69	8	27	8
116 Bone and ivory workers.....	7	—	3	—	—	—	—	—	—	—
117 Bookbinders.....	178	130	188	105	107	55	153	140	94	9
118 Boot and shoe makers and repairers.....	3,114	68	2,055	72	1,250	5	2,046	227	1,720	27
119 Bottlers and mineral and soda water makers.....	107	9	86	2	38	—	39	4	45	—
120 Box makers (paper).....	20	59	—	59	—	11	7	59	—	26
121 Box makers (wood).....	120	20	62	16	41	—	203	10	97	—
122 Brass workers (not otherwise specified) (a).....	77	1	66	—	20	—	246	—	18	—
123 Brewers and malsters (a).....	441	3	213	1	26	—	335	—	102	1
124 Brick and tile makers and terra cotta workers (a).....	1,804	—	1,218	—	476	—	898	3	329	8
125 Britannia workers.....	—	—	—	—	—	—	—	—	—	—
126 Broom and brush makers.....	338	29	254	7	186	—	113	—	110	4
127 Builders and contractors.....	1,234	—	1,017	—	741	—	718	—	316	—
128 Butchers.....	3,441	6	2,915	—	2,162	1	1,415	1	1,334	9
129 Butter and cheese makers.....	134	4	1,475	10	197	3	41	—	11	—
130 Button makers.....	—	—	—	—	—	—	1	—	—	—
131 Cabinet makers.....	1,874	1	545	1	339	—	615	1	313	—
132 Candle, soap, and tallow makers.....	29	—	34	—	20	1	29	7	39	1
133 Carpenters and joiners.....	22,716	3	16,199	2	10,985	5	11,794	1	5,961	4
134 Carpet makers (a).....	111	340	140	236	49	124	45	41	—	—
135 Carriage and wagon makers (not otherwise classified). (a)	2,025	18	1,257	11	816	—	772	1	89	—
136 Charcoal, coke, and lime burners.....	154	—	68	—	18	—	40	—	54	2
137 Chemical works employes (a).....	15	8	4	—	—	—	12	6	10	1
138 Clock and watch makers and repairers.....	293	1	240	2	175	2	276	13	114	1
139 Compositors (a).....	597	146	607	273	533	175	385	29	151	11
140 Confectioners.....	374	49	275	59	281	20	309	81	155	31
141 Coopers.....	2,803	3	1,024	—	422	1	1,753	—	1,761	1
142 Copper workers.....	54	—	28	—	13	—	53	—	73	—
143 Corset makers.....	—	8	—	1	—	1	—	2	1	6
144 Cotton mill operatives (a).....	295	608	25	15	1	—	239	356	377	307
145 Distillers and rectifiers (a).....	41	—	9	—	3	—	709	3	17	—
146 Door, sash, and blind makers (a).....	38	—	146	4	10	—	5	—	28	—
147 Dressmakers.....	9	8,117	5	8,135	5	4,383	10	4,218	5	1,577
148 Electroplaters.....	25	2	7	—	2	—	21	—	2	—
149 Electrotypers and stereotypers (a).....	9	—	14	—	16	—	16	—	—	—
150 Engravers.....	56	4	30	1	20	1	111	1	35	—
151 Fertilizer makers (a).....	3	—	6	—	—	—	7	—	—	—
152 Fish curers and packers (a).....	37	—	2	—	—	—	—	—	—	—
153 Gas works employes (a).....	135	—	36	—	27	—	50	—	39	—
154 Glass workers.....	1,925	77	13	—	12	—	162	1	1	—

a See explanatory notes in Table 2.

OCCUPATIONS.

43

OCCUPATION, CLASSIFIED BY SEX, BY STATES AND TERRITORIES: 1890—Continued.

MAINE.		MARYLAND.		MASSACHUSETTS.		MICHIGAN.		MINNESOTA.		MISSISSIPPI.		MISSOURI.		
Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
4,893	101	8,457	836	22,877	910	12,774	548	9,031	141	4,103	128	16,908	376	76
370	3	900	5	2,355	14	626	2	718	3	78	4	1,457	1	77
180	2	1,652	32	3,786	392	722	51	508	13	177	4	1,776	111	78
19		170	2	253	4	101	8	104	1	8		453	2	79
349	3	686		2,076	17	1,154	5	941	3	144		1,664	11	80
165	79	688	531	1,973	749	692	113	498	52	16	1	792	186	81
61		110		146		36		56		54		155		82
27	2	1,225	20	917	40	239	15	199	1	407		1,811	13	83
6,466		3,481		4,057	2	3,726	3	483		520		575		84
1,812	450	3,482	1,927	17,285	5,898	5,870	1,284	4,124	657	1,695	89	9,981	2,224	85
2,559	9	5,364	41	11,740	92	12,545	26	8,612	20	3,893	19	15,289	51	86
51	121	202	146	439	1,480	336	598	440	745	18	26	608	1,287	87
144		923		3,587		881		809		13		2,403		88
257	91	739	70	960	543	1,427	335	1,147	160	809	17	1,893	383	89
104		186		1,352	212	356	2	266		25		422	5	90
109	1	263	2	571	8	310	2	90		27		212	1	91
30		123		185		36		51		28		179		92
5	3	57	21	213	98	87	16	58	2	1	2	118	16	93
59,437	20,617	78,014	24,001	338,761	136,885	137,878	24,220	71,644	12,104	16,336	3,301	128,258	24,649	94
72		16		146		115		42		18		76		95
56		159		137		92		69		11		169		96
3	1	80		81	4	15		19	1	1		50	2	97
60		151		385		139		48		14		240	1	98
10		24		108	1	20		5		1		49		99
	25		157		267		125		48				201	100
		17		58		33		8				20		101
46		228		934		153		80		15		254		102
19		85		158		31		18		3		67		103
	14		35		76		45		12				65	104
19		61		119		47	1	25		5		120		105
14		78		478		72		97		1		167		106
42	4	162	4	343	8	138	4	60	8	4		217	5	107
7	2	232	29	104	22	46	16	15	1	2		66	27	108
16		108		81		41		33	1	4		101		109
173	4	1,437	58	1,713	68	823	29	445	16	43		1,441	103	110
		3	6	1	12	6	1	2				1	15	111
302	15	1,724	68	3,467	218	1,400	57	646	35	184	4	2,017	104	112
63	58	206	22	249	28	240	69	29		27	26	143	23	113
2,656		3,986	1	8,327	1	7,816		4,359		1,412		8,742	5	114
602	36	143	19	2,194	213	80	8	53	18	19	2	108	10	115
1		6		556	75	7		1				21		116
63	44	170	95	1,104	1,241	286	228	208	127	5	2	460	427	117
5,417	2,124	3,944	311	52,307	16,566	3,301	231	2,185	217	329	3	3,999	677	118
30	1	165	8	542	39	154	19	96	1	4		235	12	119
105	244	41	302	972	2,292	26	188	5	59			36	197	120
198	16	478	31	1,004	76	505	51	88	13	3		466	11	121
42		432	12	1,481	42	383	12	30		3		230		122
9		441	2	467		572		508				1,340		123
632	1	1,894	5	2,152	3	1,323	5	777		376		1,720	1	124
1				262	62									125
65	9	355	14	464	253	333	94	88		10		444	7	126
206		621		1,961		1,345		1,678	1	191		2,064	1	127
632		2,519	9	2,434		3,645	3	2,249		374	1	4,138	4	128
48	2	75	1	183	8	265	7	341	8	5		139	4	129
4		10	8	203	466		1							130
240		901	2	2,393	3	1,767	3	554		45		1,408		131
26		49		320	53	44	5	19	12			131	35	132
8,263		9,619	1	32,731	2	23,693	6	15,185	2	3,934	4	22,041	5	133
31	19	127	27	1,195	1,616	163	223	66	70			122	95	134
403		409		972	35	1,700	34	686		105		1,804	1	135
206		190	3	89		243		51		299		194	1	136
12	1	51	19	377	66	114	306	14	3			101	27	137
126	35	266	19	2,186	1,324	360	43	261		61		518	3	138
126	258	279	15	1,588	1,223	585	219	558	169	79	14	1,116	269	139
207	19	562	209	1,103	535	414	136	425	136	76	10	877	303	140
811		1,034		1,516	1	2,808	3	1,428	3	71		2,122		141
6		129		457		317		35		6		73		142
	9		16	119	709	23	378		12			1	69	143
5,317	6,713	1,320	2,146	28,775	32,775	54	11	30	7	233	230	97	73	144
		77	1	61		10		25		26		85	2	145
111		53		325		193		214		8		33		146
5	3,819	10	6,110	24	20,087	6	11,011	6	6,454		513	11	8,054	147
2		42		259	5	56	2	16				55	1	148
		22		165		36		31				55		149
13		97	1	760	28	100	2	77				257	2	150
2		97	1	112	1	9		1				2		151
327	167	60		275	28	9		6				1		152
29		88		482		101		54		15		181		153
9		872	52	810	76	131	1	89				648	4	154

STATISTICS OF POPULATION.

TABLE 3.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN EACH SPECIFIED

OCCUPATIONS.	INDIANA.		IOWA.		KANSAS.		KENTUCKY.		LOUISIANA.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Manufacturing and mechanical industries—Cont'd.										
155 Glove makers	3		10	21	2	1				
156 Gold and silver workers	171	1	66	1	85		147	2	41	
157 Gunsmiths, locksmiths, and bell hangers	205		127		101		158		106	
158 Hair workers	13	4	2	2		2		2	1	5
159 Harness and saddle makers and repairers	1,756	16	2,129	5	1,246		1,144	14	287	2
160 Hat and cap makers	29	14	17	13	14	4	85	12	9	1
161 Hosiery and knitting mill operatives (a)	44	308	5	21	8	6	3	14	4	18
162 Iron and steel workers (a)	3,174	85	368	7	321		2,066	17	232	11
163 Lace and embroidery makers		36		24		21		21		11
164 Lead and zinc workers	11		8		858		13	2	2	
165 Leather curriers, dressers, finishers, and tanners	548		64		33		519		54	
166 Machinists	4,861	1	2,294	2	1,552	1	2,301	6	766	
167 Manufacturers and officials of manufacturing companies	3,472	13	1,326	5	671	4	1,336	4	408	16
168 Marble and stone cutters	1,565		695		735		543	1	130	
169 Masons (brick and stone)	4,251	1	4,103	1	3,299		2,682	4	1,157	
170 Meat and fruit packers, canners, and preservers (a)	113	42	174	20	83	14	26	11	16	
171 Mechanics (not otherwise specified)	505	1	268		117		447		300	
172 Metal workers (not otherwise specified)	140	10	38	2	153		71		21	1
173 Mill and factory operatives (not specified) (a)	718	689	233	239	93	139	553	440	422	123
174 Millers (flour and grist)	2,368	4	1,393	5	1,305	1	1,635	3	180	
175 Milliners	7	2,571	3	2,306		1,390	24	1,248		458
176 Model and pattern makers	257	1	69		64		126		39	
177 Molders	2,168		590	1	454	1	1,059	2	184	
178 Musical instrument makers (not otherwise specified) (a)	25		2				1			
179 Nail and tack makers (a)	198	3	1		1		73	1	2	
180 Oil well employes	41						5			
181 Oil works employes	37		36		12		19		255	6
182 Painters, glaziers, and varnishers	7,867	28	4,863	19	2,918	13	3,443	8	1,535	4
183 Paper hangers	555	2	174	2	119		350	2	56	
184 Paper mill operatives	357	76	79	16	13		66	34	4	3
185 Photographers	700	82	684	117	442	68	328	22	145	9
186 Piano and organ makers and tuners (a)	245	1	84		42		77		48	
187 Plasterers	2,376		1,318	1	1,250		861		413	1
188 Plumbers and gas and steam fitters	1,098	1	569		371		507		188	1
189 Potters	629	42	286	1	50		119	17	23	
190 Powder and cartridge makers					12				1	
191 Printers, lithographers, and pressmen (a)	1,861	168	1,857	107	1,320	110	1,211	58	695	21
192 Print works operatives (a)	28		6							
193 Publishers of books, maps, and newspapers	134	1	207	4	196	1	51		26	
194 Roofers and slaters	111		36		23		55		197	1
195 Rope and cordage makers	27	1	16	4	4		194	40	15	5
196 Rubber factory operatives	5		3							
197 Sail, awning, and tent makers	17	1	10		8	1	11	3	50	
198 Salt works employes			1		146	12				
199 Saw and planing mill employes (a)	4,081	2	3,162	17	177		2,589	2	2,104	2
200 Seamstresses (a)	9	5,088	2	2,775	2	1,495	15	5,750	21	5,759
201 Sewing machine makers (not otherwise classified) (a)	34		5	8	2		6		3	
202 Sewing machine operators (a)	22	34	8	55		5	1	29		4
203 Ship and boat builders	288		91		17		176		403	
204 Shirt, collar, and cuff makers (a)	99	183	43	15	34	39	102	43	27	19
205 Silk mill operatives (a)					1	3	6	5		
206 Starch makers	149	16	82	37						
207 Steam boiler makers	896		478		359		185		240	
208 Stove, furnace, and grate makers (a)	337		66		68		308	1	25	
209 Straw workers	27	5		4				1		
210 Sugar makers and refiners			1		13				242	
211 Tailors and tailoresses (a)	2,212	1,149	1,778	453	817	271	1,925	1,379	697	382
212 Tanners and tinware makers	1,532	11	1,241	9	894	3	1,030	7	481	2
213 Tobacco and cigar factory operatives	1,524	216	1,117	191	469	24	3,041	518	990	387
214 Tool and cutlery makers (not otherwise classified) (a)	315	5	159	12	13		214	2	48	
215 Trunk, valise, leather-case, and pocket-book makers	49		28		8		184	17	20	
216 Umbrella and parasol makers	7		1				1	2	4	1
217 Upholsterers	689	40	372	21	152	4	335	9	219	11
218 Well borers	237		515		159		33		13	
219 Wheelwrights	350		137		79		106		200	
220 Whitewashers	132		39		17		179		60	
221 Wire workers	178		83	2	27		133	3	14	
222 Wood workers (not otherwise specified)	3,624	166	671	22	191		1,051	15	165	3
223 Woolen mill operatives (a)	610	737	186	93	12	1	452	706	40	31
224 Other persons in manufacturing and mechanical industries	1,486	112	1,073	202	558	37	1,059	115	566	55

a See explanatory notes in Table 2.

MAINE.		MARYLAND.		MASSACHUSETTS.		MICHIGAN.		MINNESOTA.		MISSISSIPPI.		MISSOURI.	
Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
3	1	11	39	39	52	8	11	15	12			15	9
44	1	207	28	3,547	936	129	6	75		85		258	9
21		191		831	5	181		77		38		344	2
525	5	190	59	68	81	4	10	3	10			4	14
	10	763	19	2,010	238	1,629	53	1,116	10	92		2,282	3
72	37	210	186	1,081	623	40	40	20	14			102	29
7	89	41	216	774	2,052	76	825	9	96		5	10	47
437		1,285	14	5,725	186	2,480	15	625		66		2,025	69
	6	10	55	37	100		64		23		3	2	49
1		68	3	180	34	25	1	16	1			562	16
686	1	506	16	8,923	53	618	4	212		18		800	1
1,814	1	2,590	1	18,896	8	5,159	10	2,374	2	562	1	4,706	10
1,583	2	1,856	6	9,555	26	4,004	16	1,450		816	1	3,375	19
2,773		1,183		5,525	5	859	1	1,268	1	28		2,215	5
1,757		2,340		9,360	1	5,619		4,218		577		5,984	1
32	17	301	396	264	85	78	36	39	2	3		170	53
119		100		457		265		228		429		468	1
81	1	168	9	1,340	60	805	7	86		2		355	5
1,242	636	336	302	8,891	9,272	2,052	389	362	100	497	493	467	510
657		1,285		556		2,129	3	2,209	3	515	2	3,188	2
2	972	2	1,100	17	3,338	3	2,350		1,290		426	17	2,476
85		188	5	816	7	410		96		5		274	2
426		1,176	1	4,446		2,460	1	553		49		1,913	1
2		13	1	112	7	3		8				5	177
		15	1	725	244	12	1	19				40	178
													179
		22		140	9	18		38		152	2	53	180
2,632	14	3,915	48	15,904	99	7,896	37	4,141	6	602	1	8,069	25
64	1	519	1	923	3	206	1	244	1	9		690	1
1,109	199	305	102	4,487	3,911	545	206	63	22			98	183
188	19	183	16	916	223	768	112	565	69	84	10	742	93
100	1	381	5	3,107	123	378		95	1	9		106	186
87		797		946		817		954	1	135		2,311	1
330		1,014	2	4,882	2	1,141		1,310	39	39		1,764	188
44		379	19	230	39	104	7	168	2	59		278	1
10				79	75	46							190
538	105	1,433	64	4,956	531	2,175	181	1,741	86	241	27	3,354	239
19	5	51		1,605	649	19		19				28	191
49	1	67		418	5	194	2	1					

TABLE 3.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN EACH SPECIFIED

OCCUPATIONS.	MONTANA.		NEBRASKA.		NEVADA.		NEW HAMPSHIRE.		NEW JERSEY.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
1 All occupations.....	67,587	4,636	325,416	42,644	21,591	1,824	127,845	36,858	459,467	111,271
2 Agriculture, fisheries, and mining.....	25,584	196	167,117	3,457	10,404	132	42,360	622	73,477	1,412
3 Agricultural laborers (a).....	3,210	7	34,596	175	2,229	13	11,527	51	28,528	158
4 Apiarists.....	1	1	23	1	1	1	6	1	4	2
5 Dairymen and dairywomen.....	59	5	275	50	30	4	41	10	293	59
6 Farmers, planters, and overseers (a).....	5,629	146	129,106	3,186	1,588	55	28,731	555	34,041	1,105
7 Fishermen and oystermen (a).....	11	1	81	1	26	1	172	1	3,594	1
8 Gardeners, florists, nurserymen, and vine growers.....	146	3	917	27	152	12	272	4	3,606	62
9 Lumbermen and raftsmen.....	500	1	129	1	86	1	382	1	107	1
10 Miners (coal).....	711	1	39	1	1	1	1	1	1	1
11 Miners (not otherwise specified).....	9,791	4	48	1	4,802	42	46	1	1,824	1
12 Quarrymen.....	156	1	235	1	3	1	484	1	866	1
13 Stock raisers, herders, and drovers.....	4,427	31	1,003	16	1,043	6	52	1	148	1
14 Wood choppers.....	909	1	54	1	431	1	586	1	332	1
15 Other agricultural pursuits (a).....	34	1	11	1	4	1	61	1	134	23
16 Professional service.....	2,294	606	12,294	7,245	730	330	3,529	3,302	15,600	6,763
17 Actors.....	58	53	61	29	3	1	10	12	131	59
18 Architects.....	46	1	165	1	2	1	24	1	397	1
19 Artists and teachers of art.....	30	28	120	193	3	10	56	101	530	289
20 Authors and literary and scientific persons.....	22	3	34	33	3	1	28	39	134	105
21 Chemists, assayers, and metallurgists.....	90	1	43	1	50	1	15	1	308	1
22 Clergymen.....	144	1	1,750	24	34	1	657	17	2,000	18
23 Dentists.....	65	3	321	1	20	1	161	1	435	8
24 Designers, draftsmen, and inventors.....	19	1	88	5	3	1	54	1	475	12
25 Engineers (civil, mechanical, electrical, and mining) and surveyors.....	294	1	597	1	106	1	237	1	1,803	9
26 Journalists.....	103	2	564	10	22	1	126	1	678	21
27 Lawyers.....	142	1	2,434	19	100	1	416	1	2,157	2
28 Musicians and teachers of music.....	163	59	428	642	21	35	155	250	897	921
29 Officers of United States army and navy.....	60	1	69	1	1	1	14	1	29	1
30 Officials (government) (a).....	292	27	1,333	99	165	17	422	48	1,672	68
31 Physicians and surgeons.....	227	5	1,636	85	78	3	639	34	1,929	115
32 Professors in colleges and universities.....	10	1	67	8	4	1	34	10	112	8
33 Teachers.....	180	419	1,830	6,076	85	263	335	2,767	1,235	5,101
34 Theatrical managers, showmen, etc.....	150	2	503	16	48	1	100	1	463	9
35 Veterinary surgeons.....	17	1	236	1	2	1	35	1	186	1
36 Other professional service.....	2	3	15	5	1	1	11	10	29	17
37 Domestic and personal service.....	17,653	2,683	38,745	20,527	4,526	924	14,428	9,283	81,334	48,188
38 Barbers and hairdressers.....	334	9	1,683	46	119	1	498	8	2,625	60
39 Bartenders.....	496	1	961	1	144	1	162	1	1,929	11
40 Boarding and lodging house keepers.....	116	179	316	491	53	77	179	293	220	1,175
41 Engineers and firemen (not locomotive).....	938	1	1,384	1	220	1	766	1	5,541	2
42 Hotel keepers.....	260	51	908	01	121	19	396	26	1,431	142
43 Housekeepers and stewards (a).....	28	146	36	817	4	52	51	1,799	192	2,550
44 Hunters, trappers, guides, and scouts.....	53	1	19	1	68	3	18	1	12	1
45 Janitors.....	44	1	356	11	10	1	80	4	477	80
46 Laborers (not specified) (a).....	9,888	21	25,190	134	2,077	40	10,539	56	54,424	401
47 Launderers and laundresses.....	677	153	440	1,109	340	154	147	301	853	3,524
48 Nurses and midwives.....	10	89	40	460	7	33	33	377	100	1,581
49 Restaurant keepers.....	85	8	354	36	22	7	64	11	446	46
50 Saloon keepers.....	835	13	1,171	6	225	11	292	17	2,845	225
51 Servants.....	1,818	2,008	3,439	17,292	990	523	637	6,373	6,278	38,221
52 Sextons.....	10	1	24	1	2	1	31	1	236	1
53 Soldiers, sailors, and marines (United States) (a).....	1,885	1	1,598	1	1	1	1	1	57	1
54 Watchmen, policemen, and detectives.....	151	1	662	1	111	1	493	1	3,113	7
55 Other domestic and personal service.....	27	3	166	33	12	4	31	17	495	163
56 Trade and transportation.....	11,219	224	59,355	3,528	3,251	57	18,339	1,432	111,385	8,687
57 Agents (claim, commission, real estate, insurance, etc.) and collectors.....	544	14	4,658	74	74	4	735	39	5,668	147
58 Auctioneers.....	15	1	70	1	1	1	36	1	50	1
59 Bankers and brokers (money and stocks).....	231	1	1,342	15	48	1	97	1	1,023	2
60 Boatmen and canalmen.....	27	1	54	1	1	1	21	1	1,916	2
61 Bookkeepers and accountants (a).....	535	15	2,642	433	164	9	516	385	5,911	763
62 Brokers (commercial).....	7	1	83	1	1	1	10	1	391	1
63 Clerks and copyists (a).....	1,414	70	10,022	1,272	370	11	2,592	480	20,645	2,070
64 Commercial travelers.....	96	1	1,594	14	18	1	301	5	1,189	7
65 Draymen, hackmen, teamsters, etc.....	2,088	1	5,280	3	704	1	2,942	1	12,200	6
66 Foremen and overseers.....	240	1	916	5	78	1	217	3	1,171	74
67 Hostlers.....	146	1	1,173	1	53	1	611	1	1,696	1
68 Hucksters and peddlers.....	79	1	514	14	25	1	330	1	2,105	45
69 Livery stable keepers.....	135	1	1,068	1	43	1	233	6	588	2
70 Locomotive engineers and firemen (a).....	451	1	1,718	1	182	1	589	1	2,097	1
71 Merchants and dealers in drugs and chemicals (retail).....	120	1	1,298	36	24	1	280	7	1,124	16
72 Merchants and dealers in dry goods (retail).....	40	4	782	13	52	1	245	16	1,004	138
73 Merchants and dealers in groceries (retail).....	191	2	1,340	21	99	1	817	11	4,100	427
74 Merchants and dealers in wines and liquors (retail).....	30	1	73	1	5	1	9	1	481	14
75 Merchants and dealers in wines and liquors (wholesale).....	11	1	39	1	4	1	7	1	157	1

a See explanatory notes in Table 2.

47

NEW MEXICO.		NEW YORK.		NORTH CAROLINA.		NORTH DAKOTA.		OHIO.		OKLAHOMA.		OREGON.		
Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
50,217	3,934	1,921,785	513,940	422,171	115,192	59,956	7,815	1,088,609	184,177	19,849	1,057	115,988	10,793	1
26,190	421	401,529	8,603	318,711	55,648	43,131	824	418,806	10,213	13,617	311	50,080	900	2
5,946	45	131,967	629	129,448	42,348	12,157	116	106,932	759	1,057	10	10,521	84	3
3	1	208	3	5	1	19	5	92	3	2	11	171	13	4
28	1	902	250	67	38	19	5	1,809	115	13	1	29,313	744	5
9,943	313	241,648	7,362	179,476	13,075	30,109	691	275,221	9,121	12,117	294	1,473	5	6
11		4,069	5	2,542	44	19		944		1				7
120	4	10,567	317	449	66	51	3	4,375	176	24	2	592	17	8
156		2,004		1,723	2	33		800		12		1,818		9
804		147	1	97		36		22,012	25	4		146		10
2,167	1	2,909	2	715	2	8		2,423	6	10		2,162	3	11
24		4,853	5	148		6		3,377	3	2		62		12
6,775	57	558		84	4	684	9	573		374	4	3,071	34	13
212		833		1,087		8		610	2	1		737		14
1		204	29	2,870	68	1		138	3			3		15
1,386	326	76,484	38,892	8,971	3,325	1,945	1,113	41,783	20,130	843	174	5,007	1,919	16
7	8	1,867	1,402	3	5	1	1	221	147	1	1	148	73	17
10		1,593	4	35		9		347	3	7		68		18
6		2,978	1,915	51	47	2	10	688	786	1	8	85	106	19
15	1	786	449	40	16	4	2	189	137	2		26	10	20
24		821	14	28		1		202	2			19		21
159	2	7,322	210	2,240	12	340	2	4,988	87	82	1	545	8	22
23		2,234	35	195		29		1,095	18	20	1	129		23
1		1,801	133	8		3		604	13	1		48		24
112		6,518	28	304		45		2,395	4	40		474		25
47	1	3,209	151	179	5	81		1,207	57	30		182	0	26
239		11,177	17	992		337		5,324	12	264		661	1	27
174	42	5,844	4,713	96	198	46	48	1,668	2,406	13	26	232	218	28
51		539		20		43		29		8		5		29
189	13	8,356	332	1,921	115	337	20	4,283	353	68	6	569	38	30
150	4	10,446	693	1,534	26	184	6	6,747	287	211	6	696	40	31
3		462	76	50	13	6	1	314	54	2	2	52	7	32
152	246	6,269	28,442	1,817	2,884	380	1,015	9,841	15,703	75	122	838	1,404	33
17	1	3,096	187	44	3	60								

STATISTICS OF POPULATION.

TABLE 3.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN EACH SPECIFIED

OCCUPATIONS.	MONTANA.		NEBRASKA.		NEVADA.		NEW HAMPSHIRE.		NEW JERSEY.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Trade and transportation—Continued.										
76 Merchants and dealers, not specified (retail).....	1,280	11	8,905	76	330	11	2,564	59	15,492	941
77 Merchants and dealers (wholesale), importers, and shipping merchants.....	27		561	2	7		98		1,465	5
78 Messengers and errand and office boys.....	69		502	11	22		92		1,939	56
79 Newspaper carriers and newsboys.....	8		143	3	2		13		161	2
80 Officials of banks and of insurance, trade, transportation, trust, and other companies. (a)	288	3	978	11	109		189	3	1,485	6
81 Packers and shippers.....	63		232	48	26		83	21	697	220
82 Pilots.....	5		8				11		358	
83 Porters and helpers (in stores and warehouses).....	25		133	2	13		23	3	411	11
84 Sailors (a).....	32		26		10		112		2,773	1
85 Salesmen and saleswomen.....	340	14	3,381	599	97	4	1,274	277	6,732	2,275
86 Steam railroad employes (not otherwise specified). (a)	2,295	4	7,394	22	649		2,840	9	11,953	65
87 Stenographers and typewriters.....	42	52	872	717	3	4	28	53	371	799
88 Street railway employes.....	48		604	1			95		1,212	
89 Telegraph and telephone operators.....	238	24	1,036	132	53	11	162	50	1,425	386
90 Telegraph and telephone linemen and electric light and power company employes.....	23		205		10		67		555	157
91 Undertakers.....	15		73		5		78	2	521	4
92 Weighers, gaugers, and measurers.....	3		53		1		4		125	
93 Other persons in trade and transportation.....	5		44	4			12		156	45
94 Manufacturing and mechanical industries.....	10,837	927	47,905	7,887	2,680	381	49,189	22,219	177,671	46,221
95 Agricultural implement makers (not otherwise classified). (a)	1		9				31		13	
96 Apprentices (blacksmiths).....	3		47		4		20		158	
97 Apprentices (boot and shoe makers).....			4				2		57	2
98 Apprentices (carpenters and joiners).....	4		55	2	1		16		577	3
99 Apprentices (carriage and wagon makers).....			3				9		21	
100 Apprentices (dressmakers).....		1		27		3		5		186
101 Apprentices (leather curriers, etc.).....			3				4		19	
102 Apprentices (machinists).....	10		74		2		64		544	3
103 Apprentices (masons).....	2		15				8		216	1
104 Apprentices (milliners).....		1		18		1		2		25
105 Apprentices (painters).....	2		21		4		8		136	
106 Apprentices (plumbers).....	8		53				14		376	
107 Apprentices (printers).....	7		62	2	4		28	2	213	8
108 Apprentices (tailors).....	10		10	1			6	1	57	42
109 Apprentices (tinsmiths).....	2		14				9		71	1
110 Apprentices (not otherwise specified).....	27	3	263	8	8		131	6	1,989	62
111 Artificial flower makers.....				1					31	98
112 Bakers.....	153	5	667	31	35	3	303	6	3,016	76
113 Basket makers.....	1		17	1	1	3	48	6	210	12
114 Blacksmiths.....	915		3,191	3	364		1,725		5,643	1
115 Bleachers, dyers, and scourers.....	6	1	35		2		316	9	913	88
116 Bone and ivory workers.....			1						63	15
117 Bookbinders.....	10	6	146	57	1	1	38	18	502	393
118 Boot and shoe makers and repairers.....	179	1	1,037	16	93		8,161	2,421	6,764	1,325
119 Bottlers and mineral and soda water makers.....	17	1	54	1	4		54	6	450	33
120 Box makers (paper).....				31			147	174	504	362
121 Box makers (wood).....	1		29		3		215	16	825	32
122 Brass workers (not otherwise specified) (a).....	2		22		2		104		1,052	63
123 Brewers and maltsters (a).....	97	1	196		43		151		774	6
124 Brick and tile makers and terra cotta workers (a).....	185		1,192	3	12		1,487	1	5,231	3
125 Britannia workers.....									11	
126 Broom and brush makers.....	1		127				40	6	285	71
127 Builders and contractors.....	301		1,100	1	25		134		1,601	
128 Butchers.....	464		2,111	2	165		450		4,791	2
129 Butter and cheese makers.....	7		200	3	7		50	5	162	8
130 Button makers.....									274	344
131 Cabinet makers.....	26		268		9		326		954	
132 Candle, soap, and tallow makers.....			17	2			26		199	23
133 Carpenters and joiners.....	2,689	1	11,205	9	473	1	5,182		21,181	10
134 Carpet makers (a).....			49	69	1		43	71	478	180
135 Carriage and wagon makers (not otherwise classified). (a)	46		458		23		238		544	
136 Charcoal, coke, and lime burners.....	70		6		18		11		153	
137 Chemical works employes (a).....				1			13	5	231	87
138 Clock and watch makers and repairers.....	34	1	227		22		94	6	879	120
139 Compositors (a).....	55	5	593	119	42	3	102	123	837	153
140 Confectioners.....	34	5	254	37	6		92	31	733	256
141 Coopers.....	23		308		8		414		1,480	1
142 Copper workers.....	6		29		3		11		199	
143 Corset makers.....							8	6	60	937
144 Cotton mill operatives (a).....			7	1			6,649	9,123	1,288	2,175
145 Distillers and rectifiers (a).....	2		45				1		65	2
146 Door, sash, and blind makers (a).....	4		7		3		209		389	
147 Dressmakers.....		564	13	3,990		195		2,414	35	10,268
148 Electroplaters.....			10				5		250	8
149 Electrotypes and stereotypers (a).....			12				1		60	
150 Engravers.....	1		50		1		23	2	814	23
151 Fertilizer makers (a).....							2		42	1
152 Fish curers and packers (a).....			1						7	
153 Gas works employes (a).....	3		39		1		49		219	1
154 Glass workers.....	9		33	2	1		11	2	4,221	77

a See explanatory notes in Table 2.

OCCUPATION, CLASSIFIED BY SEX, BY STATES AND TERRITORIES: 1890—Continued.

NEW MEXICO.		NEW YORK.		NORTH CAROLINA.		NORTH DAKOTA.		OHIO.		OKLAHOMA.		OREGON.		
Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
813	11	64,389	3,282	5,209	75	1,150	8	23,024	629	468	7	2,745	52	76
23		5,260	33	133	1	18		1,466	3	14		75		77
23		12,582	1,155	325	0	26		2,390	111	0		150	3	78
1		680	17	10		8		396	2	1		16		79
76		5,381	19	273	1	106	2	2,207	9	27		326	2	80
201		3,119	1,312	45	33	8		1,070	448			102		81
11		960		97		6		161		2		25		82
23		5,574	103	241	1	4		1,069	19	1		59		83
6		8,421	3	697		12		1,744	1	3		792		84
143	6	33,144	15,454	2,071	116	484	40	12,507	3,650	158	5	920	118	85
1,104	3	34,814	160	5,019	22	1,208	2	21,838	80	101	1	2,014	1	86
11	3	2,331	4,118	31	17	26	30	928	1,554	12	7	72	155	87
78	15	8,044		72		161	12	2,303	1			195		88
		4,987	2,093	362	18			8,703	479	29		323	46	89
7		1,787	85	55		5		651	9	8		43		90
11		2,075	22	56	1	8		878	4	3		33		91
3		754		45		1		223				3		92
2		911	277	3	4	2		164	78			10		93
3,407	590	634,420	193,786	87,231	13,414	3,968	820	273,658	57,329	2,020	148	20,520	2,440	94
		658	2	3				282	1	2		2		95
6		513	1	37		13		304				20		96
		251	2	3				116	2			2		97
2		1,094		52		1		364				16		98
		103		6		1		101				2		99
	1		1,220		2		8		277		2		6	100
		24		2				29				2		101
16		1,430	4	41		1		878	1			13		102
		390		14				76				8		103
			255		2		1		79				5	104
1		399	2	9				142	2			4		105
1		1,340	1	3		3		170				23		106
7	2	774	26	20		1		298	14			4		107
1		455	222	1		2		165	30			1	1	108
1		327		5		1		145				5		109
25	1	5,853	306	145	3	15	2	2,363	98			73	5	110
		377	1,997					8						111
69	4	13,070	396	106	8	48	5	3,763	131	58		248	3	112
		1,139	188	77	15			390	44			4		113
413		22,319	8	2,100	2	591		10,056	3	185		1,362		114
1		1,425	625	56	4	1		252	38	3		17	2	115
		234	51					19						116
		3,765	4,080	27	17	16	4	655	609		1	37	35	117
181		24,133	3,795	1,058	10	124		9,013	1,433	55		376		118
5		1,856	186			9		261	10	2		20	1	119
		1,601	3,715	25	7			55	481				7	120
		1,825	397	51	1			514	95	1		53		121
1		3,718	126			2		1,030	32			11		122
27		4,572	4	18		25		1,970	1			139		123
26		8,610	23	549	3	44		3,013	7	43		367		124
		72	6					1						125
		2,006	397	16		3		925	63			20		126
62		6,907	2	234		52		2,969	1	38		445		127
139		19,355	24	420		226		7,265	3	84		640	1	128
	1	2,876	224	9	3	16		587	10			23	1	129
		191	367					2						130
6		6,661	5	257		14		3,115	4	15		196		131
		606	68					375	85	1		13		132
811		72,987	35	7,110	3	1,052		39,404	11	753		5,285	3	133
	1	3,147	3,789				11	419	503			9	8	134
15		4,820	27	380		40		3,992	44	24		152		135
														136
13		355		9				338				16		137
		753	223	18				113	25				1	138
23		3,130	811	89		20		1,807	532	6		85	2	139
11	8	4,659	892	166	9	71	17	1,428	355	19	2	110	60	140
7	2	3,465	1,518	86	2	20	1	912	284	28	1	102	27	141
1		7,458	14	775		11		4,470	2	4		129		142
2		579	3	19		3		139				3		143
		78	443					10	37				1	144
		2,357	3,166	3,473	4,319			202	302					145
		269		302				224	1			6		146
		1,678	2	29				126				28		147
	205	513	59,032		1,052		475	21	20,594		90	2	1,299	148
		673	35					183	3			6		149
		460	1					78						150
1		2,402	63	3				434	0			21	1	151
		57		47				19						152
		41		8				34				134		153
5		1,076	2	20		1		377				6		154
		4,241	275	2				3,998	320			7		

STATISTICS OF POPULATION.

TABLE 3.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN EACH SPECIFIED

OCCUPATIONS.	MONTANA.		NEBRASKA.		NEVADA.		NEW HAMPSHIRE.		NEW JERSEY.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Manufacturing and mechanical industries—Cont'd.										
155 Glove makers.....	3			6	1	1	120	63	47	117
156 Gold and silver workers.....	11		36		116		91	4	1,117	379
157 Gunsmiths, locksmiths, and bell hangers.....	8		117		12		37	2	395	3
158 Hair workers.....				3			3		10	13
159 Harness and saddle makers and repairers.....	101		1,231		41		385	18	1,542	136
160 Hat and cap makers.....		1	30	10	2		11	3	4,745	1,392
161 Hosiery and knitting mill operatives (a).....			10	3			813	1,458	361	658
162 Iron and steel workers (a).....	488		436	2	15		652	102	5,859	115
163 Lace and embroidery makers.....		1		13				10	108	361
164 Lead and zinc workers.....	18		14				1		210	2
165 Leather curriers, dressers, finishers, and tanners.....	13		49		3		503	2	2,588	59
166 Machinists.....	433		1,058	1	119		1,799	1	9,030	4
167 Manufacturers and officials of manufacturing companies.....	113		612		21		1,225	1	4,720	8
168 Marble and stone cutters.....	143		587		12		1,328		1,598	4
169 Masons (brick and stone).....	624	1	3,114	1	82		1,268		6,766	1
170 Meat and fruit packers, canners, and preservers (a).....			128	2	9		1		140	22
171 Mechanics (not otherwise specified).....	17		139		5		167		298	
172 Metal workers (not otherwise specified).....	869	1	106		46	2	50	8	526	56
173 Mill and factory operatives (not specified) (a).....	89	5	71	87	128		1,543	2,344	2,745	2,674
174 Millers (flour and grist).....	55		918		26		237		972	2
175 Milliners.....		123	8	1,343		69		532	6	1,435
176 Model and pattern makers.....	7		61	1	2		75		449	3
177 Molders.....	98		527	3	33		575		2,801	2
178 Musical instrument makers (not otherwise specified) (a).....			2						35	2
179 Nail and tack makers (a).....			5				8		238	1
180 Oil well employes.....	1								9	
181 Oil works employes.....			20				1		309	4
182 Painters, glaziers, and varnishers.....	410	1	3,493	21	105	1	2,122	11	9,375	64
183 Paper hangers.....	18		183	1	3		48	2	504	2
184 Paper mill operatives.....			20	11			544	137	721	96
185 Photographers.....	81	8	392	39	17		147	44	435	29
186 Piano and organ makers and tuners (a).....	6		46		3		78		590	10
187 Plasterers.....	137		1,334		19		40		525	1
188 Plumbers and gas and steam fitters.....	165		883	2	27		291		3,083	2
189 Potters.....	1		105	1			19		2,978	823
190 Powder and cartridge makers.....									57	4
191 Printers, lithographers, and pressmen (a).....	266	3	1,790	70	43	3	344	36	3,261	114
192 Print works operatives (a).....									714	129
193 Publishers of books, maps, and newspapers.....	23		162	3	2		43	2	284	1
194 Roofers and slaters.....	5		52				39		432	
195 Rope and cordage makers.....	9		10				2	7	131	31
196 Rubber factory operatives.....			1				6	2	1,595	583
197 Sail, awning, and tent makers.....	3		16		1		14		137	10
198 Salt works employes.....					2				22	
199 Saw and planing mill employes (a).....	508		409		133		1,639		974	
200 Seamstresses (a).....		161	8	1,519		92		611	86	2,841
201 Sewing machine makers (not otherwise classified) (a).....			1						323	12
202 Sewing machine operators (a).....		1		3			8	105	60	533
203 Ship and boat builders.....	7		18				74		1,406	
204 Shirt, collar, and cuff makers (a).....	3	1	13	9	4		6	13	524	1,428
205 Silk mill operatives (a).....							3		7,561	7,588
206 Starch makers.....			10	4			1		2	
207 Steam boiler makers.....	58		240		18		89		992	
208 Stove, furnace, and grate makers (a).....			29				15		125	
209 Straw workers.....				1				4	34	71
210 Sugar makers and refiners.....			4						276	
211 Tailors and tailoresses (a).....	195	19	1,209	152	58	2	380	622	3,602	2,116
212 Tinners and tinware makers.....	123		934	2	41		315		2,056	36
213 Tobacco and cigar factory operatives.....	57	3	606	47	3		139	6	2,242	869
214 Tool and cutlery makers (not otherwise classified) (a).....	11		15		1		283	9	1,294	21
215 Trunk, valise, leather-case, and pocket-book makers.....			22		1		29	1	999	129
216 Umbrella and parasol makers.....										
217 Upholsterers.....	28		184	2	55	1	1		176	95
218 Well borers.....	4		178		6		122	3	908	56
219 Wheelwrights.....	26		70	1	8				58	
220 Whitewashers.....	3		15		1		9		969	
221 Wire workers.....			20		2		31		87	
222 Wood workers (not otherwise specified).....	37	1	206	5	12		929	116	1,138	147
223 Woolen mill operatives (a).....			17	3					1,604	92
224 Other persons in manufacturing and mechanical industries.....	155	1	933	78	52		2,185	1,346	1,661	1,285
							460	49	3,683	1,518

a See explanatory notes in Table 2.

OCCUPATIONS.

51

OCCUPATION, CLASSIFIED BY SEX, BY STATES AND TERRITORIES: 1890—Continued.

NEW MEXICO.		NEW YORK.		NORTH CAROLINA.		NORTH DAKOTA.		OHIO.		OKLAHOMA.		OREGON.	
Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
		2,111	2,888		I			10	9				1
48		3,234	605	41		7		690	51	4		21	155
5		1,678		42		6		579	1	5		47	156
		121	147					53	33				157
37		4,406	105	250		146		3,295	65	35		317	158
													159
1		4,503	1,969	8				154	122	1		7	160
		3,506	6,041	29	162		1	172	699			1	161
54		14,007	239	146	2	4		18,731	242	4		116	162
	2	477	2,236		10			8	168			*	163
		477	29					160	8				164
4		6,403	57	107		4		1,372	7			53	165
160		25,543	22	954	1	145		14,365	24	16		684	166
49	1	17,974	80	1,035		56		8,290	28	36	1	464	167
38		11,236	21	234		14		3,279	4	32		163	168
215		24,856	11	1,331		150		10,517		145		563	169
		544	240	8	4	2		201	47			433	170
14		2,081	6	770		13		717		4		120	171
86		2,891	135	31	3	1		872	77			17	172
5		3,951	4,607	1,037	590	5	7	1,186	727	1		82	173
78		4,258	6	1,734	13	129		3,327	2	19		416	174
	92												
3		213	8,519		603		118	27	4,357		31	2	175
10		1,725	84	13	1	1		1,005	7	1		48	176
		11,174	11	188		7		7,502	5	3		186	177
		218	9					14					178
		201	48					790	34				179
		573	1					1,157	2				180
		1,037	4	32				599	4			2	181
121	1	40,260	273	1,026	3	199	1	16,564	114	121		1,158	182
3		1,800	12	13		7		968	13	1		32	183
		3,912	1,254	30	11			1,275	629			14	184
24	2	2,375	257	92	4	57	5	1,228	154	15	1	148	185
1		4,867	63	19		3		431				26	186
47		3,875	1	198		29		3,470	1	44		236	187
25	1	14,980	20	82		17		2,854	2	7		299	188
0	7	747	132	58	9			3,375	592			45	189
		104	17	1				102	10				190
70		17,055	1,107	451	10	125	4	4,804	439	57	2	533	191
		863	279					34					192
6		1,118	10	15		23		290	5	6		29	193
		1,704	2	7				467				3	194
		1,048	652	2				513	303			26	195
		1,023	505					373	172			8	196
		818	62	13		2		93	11			14	197
		710	76					53				1	198
118		7,397	5	3,407	8	50		4,231		31		1,934	199
2	233	2,468	19,538	4	4,227		150	40	11,411		12	9	200
		76	2	3				52				1	201
		604	2,723	3	3			27	76				1
1		4,731	2	09				963		1		190	202
		2,156	8,627					92	122			7	203
													204
	15	2,417	3,505	20	22			24	16				205
		89	45					126	50				206
29		3,181	2	29		35		1,972				95	207
		1,619	3	4				1,163	1			7	208
		131	300					37	8			2	209
		640	2					23					210
71	6	41,908	19,383	231	144	106	13	7,666	5,775	22	3	535	211
44		9,703	213	248	5	84		3,923	48	32		319	212
4		18,526	7,126	3,754	1,965	51	1	4,825	2,158	13	1	100	213
		2,572	93	22		1		1,103	20			23	214
3		1,079	229					326	3	5		11	215
		484	734	2				49	18			3	216
5		4,913	498	86	4	2		2,049	109	5		112	217
4		205		5		19		672	1	24		13	218
13		1,681		265		7		637		2		43	219
1	1	380	3	83		1		523				2	220
2		1,615	196	2		1		1,242	21	1		8	221
5		10,065	476	431	11	6		5,624	343			170	222
29		4,040	3,973	131	69			570	526			114	223
39	2	9,463	4,756	559	72	15	3	3,333	871	6	1	266	224

TABLE 3.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN EACH SPECIFIED

OCCUPATIONS.	PENNSYLVANIA.		RHODE ISLAND.		SOUTH CAROLINA.		SOUTH DAKOTA.		TENNESSEE.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
1 All occupations	1,635,143	323,948	113,164	42,714	311,423	129,431	102,635	11,458	473,171	80,582
2 Agriculture, fisheries, and mining	446,877	6,209	12,422	184	239,567	88,450	69,429	1,410	313,070	23,816
3 Agricultural laborers (a)	99,290	1,036	4,801	41	116,952	78,315	12,256	117	107,388	12,621
4 Apriarists	68	1	3	3	3	3	5	5	14	14
5 Dairy men and dairy women	875	121	6	1	46	15	38	2	323	52
6 Farmers, planters, and overseers (a)	203,281	4,763	5,798	132	117,156	10,069	53,409	1,277	196,230	11,049
7 Fishermen and oystermen (a)	825	2	782	...	501	6	28	...	335	...
8 Gardeners, florists, nurserymen, and vine growers	5,680	127	749	7	261	23	130	7	897	85
9 Lumbermen and raftsmen	9,011	5	18	...	269	...	77	...	1,066	...
10 Miners (coal)	103,161	119	51	...	12	...	12	...	3,434	2
11 Miners (not otherwise specified)	13,595	16	15	...	782	...	1,947	...	1,455	...
12 Quarrymen	6,484	11	128	...	200	...	317	...	825	...
13 Stock raisers, herders, and drovers	740	...	16	...	82	2	879	7	217	4
14 Wood choppers	3,670	1	53	...	776	3	289	...	662	1
15 Other agricultural pursuits (a)	197	7	5	3	2,539	17	12	...	24	2
16 Professional service	50,944	24,136	3,447	1,999	5,970	2,223	3,613	2,382	14,983	4,467
17 Actors	845	196	33	19	3	1	10	11	19	9
18 Architects	528	4	87	...	20	...	19	...	99	...
19 Artists and teachers of art	1,016	883	108	105	30	32	18	26	168	142
20 Authors and literary and scientific persons	318	169	44	34	12	9	13	6	30	26
21 Chemists, assayers, and metallurgists	646	7	36	...	22	...	17	...	20	...
22 Clergymen	6,512	68	419	5	1,623	5	621	9	2,674	10
23 Dentists	1,779	49	109	7	138	...	59	1	352	1
24 Designers, draftsmen, and inventors	1,322	42	205	7	5	...	8	...	45	...
25 Engineers (civil, mechanical, electrical, and mining) and surveyors	4,607	7	373	2	236	...	197	...	634	3
26 Journalists	1,640	61	125	4	100	2	196	3	304	10
27 Lawyers	6,728	7	283	...	771	1	737	3	2,064	...
28 Musicians and teachers of music	2,385	3,137	229	263	82	164	65	149	228	604
29 Officers of United States army and navy	120	...	35	...	10	...	19	...	6	...
30 Officials (government) (a)	5,146	407	484	30	685	47	476	34	1,638	74
31 Physicians and surgeons	7,978	378	469	57	1,129	11	395	14	3,385	51
32 Professors in colleges and universities	387	71	24	4	61	5	29	5	85	15
33 Teachers	7,645	18,578	265	1,447	1,008	1,945	618	2,121	2,970	3,508
34 Theatrical managers, showmen, etc	1,088	45	82	1	24	1	54	...	204	10
35 Veterinary surgeons	596	...	26	...	7	...	62	...	45	1
36 Other professional service	158	27	11	14	4	...	...	...	13	3
37 Domestic and personal service	332,026	145,750	17,747	11,159	22,335	29,437	8,232	5,679	43,480	41,859
38 Barbers and hairdressers	8,230	260	683	22	414	7	300	5	1,158	20
39 Bartenders	4,381	13	436	5	231	...	73	...	721	1
40 Boarding and lodging house keepers	830	2,451	93	289	46	231	87	73	190	681
41 Engineers and firemen (not locomotive)	18,697	9	1,235	...	679	...	357	...	2,252	1
42 Hotel keepers	4,370	371	193	26	111	50	372	34	395	95
43 Housekeepers and stewards (a)	576	8,930	61	872	64	937	18	314	81	1,563
44 Hunters, trappers, guides, and scouts	32	...	4	...	3	...	13	...	13	...
45 Janitors	1,527	309	235	6	64	6	48	4	202	11
46 Laborers (not specified) (a)	260,095	2,129	11,088	143	16,003	4,795	5,171	26	29,799	1,378
47 Launderers and laundresses	1,814	6,608	151	1,003	128	7,669	146	233	287	11,486
48 Nurses and midwives	575	3,922	70	452	46	502	20	108	65	561
49 Restaurant keepers	1,584	168	145	5	87	...	90	...	138	84
50 Saloon keepers	2,584	138	415	4	114	9	154	2	673	8
51 Servants	15,720	120,095	1,539	8,277	3,653	15,157	558	4,858	6,033	25,961
52 Sextons	766	6	46	...	56	...	9	...	77	1
53 Soldiers, sailors, and marines (United States) (a)	526	...	330	...	11	...	742	...	14	...
54 Watchmen, policemen, and detectives	9,116	19	944	...	613	...	66	...	1,171	27
55 Other domestic and personal service	594	322	79	55	32	19	10	4	211	31
56 Trade and transportation	297,699	26,563	24,709	2,603	21,024	711	12,461	389	52,126	1,780
57 Agents (claim, commission, real estate, insurance, etc.) and collectors	13,379	425	1,032	35	815	8	1,133	11	2,706	70
58 Auctioneers	357	...	35	...	21	...	5	...	31	...
59 Bankers and brokers (money and stocks)	1,381	5	136	3	97	2	311	5	354	5
60 Boatmen and canalmen	2,051	...	61	...	163	...	20	...	228	...
61 Bookkeepers and accountants (a)	10,594	2,128	1,394	607	656	26	362	44	2,008	126
62 Brokers (commercial)	567	...	57	...	63	...	10	...	88	...
63 Clerks and copyists (a)	47,141	6,495	3,866	602	2,997	150	1,260	131	6,667	497
64 Commercial travelers	2,876	54	404	7	238	...	158	...	1,109	7
65 Draymen, hackmen, teamsters, etc	39,647	26	3,850	2	2,006	1	1,118	1	6,783	10
66 Foremen and overseers	3,030	173	178	5	265	1	283	...	523	3
67 Hostlers	4,808	...	769	...	357	...	189	...	854	...
68 Hucksters and peddlers	6,200	218	765	14	217	101	55	1	752	2
69 Livery stable keepers	1,818	4	185	...	117	...	280	...	384	21
70 Locomotive engineers and firemen (a)	9,861	...	297	...	484	...	320	...	1,340	...
71 Merchants and dealers in drugs and chemicals (retail)	3,996	103	324	5	232	5	260	4	777	10
72 Merchants and dealers in dry goods (retail)	2,793	337	168	27	321	12	145	4	1,588	31
73 Merchants and dealers in groceries (retail)	9,996	978	1,147	28	767	36	303	1	2,054	154
74 Merchants and dealers in wines and liquors (retail)	515	17	250	2	37	...	17	...	50	...
75 Merchants and dealers in wines and liquors (wholesale)	442	9	65	...	13	...	5	...	39	...

a See explanatory notes in Table 2.

OCCUPATION, CLASSIFIED BY SEX, BY STATES AND TERRITORIES: 1890—Continued.

TEXAS.		UTAH.		VERMONT.		VIRGINIA.		WASHINGTON.		WEST VIRGINIA.		WISCONSIN.		WYOMING.		
Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
610,193	86,015	59,825	7,076	108,804	19,967	445,473	106,366	153,581	11,115	202,081	21,707	495,229	81,061	28,736	1,894	1
398,140	34,178	23,510	573	55,534	649	255,009	16,736	47,291	652	126,631	3,256	236,168	5,931	11,128	73	2
111,469	18,084	4,430	32	18,012	78	108,008	9,684	8,173	51	34,587	479	60,400	583	1,139	3	3
40	4	12	1	23	1	12	1	1	1	6	1	104	3	1	1	4
508	24	37	17	25	2	176	42	148	3	71	33	286	37	15	2	5
263,548	15,803	11,854	486	84,310	563	131,430	6,868	27,032	539	80,434	2,718	161,460	5,244	2,524	47	6
429	2	23	1	43	1	7,640	59	1,162	40	51	1	792	2	10	1	7
1,050	55	505	23	279	5	971	66	542	8	253	15	1,449	59	29	4	8
1,050	1	140	1	401	1	655	1	4,826	1	1,050	1	7,209	2	21	1	9
653	1	521	1	133	1	665	1	2,179	2	8,972	7	3,042	1	1,874	3	10
242	3	3,117	3	133	1	3,259	2	926	1	633	1	3,042	1	1,150	1	11
373	1	121	1	2,068	1	792	1	140	1	249	1	604	1	71	1	12
17,626	193	2,409	9	46	1	196	3	1,036	8	68	1	502	1	4,134	13	13
1,038	1	151	1	191	1	1,171	5	1,121	1	243	1	299	1	157	1	14
116	10	190	3	3	1	34	6	2	1	14	1	21	1	3	1	15
22,226	5,897	2,135	708	3,029	3,247	11,965	5,730	6,598	1,616	6,397	2,265	13,545	10,733	953	250	16
136	133	20	37	4	1	28	35	137	139	11	2	93	58	8	7	17
155	1	69	1	14	1	48	1	225	1	23	1	156	1	5	1	18
148	162	59	28	89	60	80	69	119	102	55	64	201	240	8	14	19
65	24	15	7	19	21	51	17	23	11	12	3	58	48	10	2	20
59	1	49	1	7	1	28	1	45	1	23	1	44	1	14	1	21
3,354	9	119	4	614	6	2,164	16	518	7	987	1	2,116	18	62	1	22
898	7	89	4	130	1	284	1	149	1	118	1	412	19	16	1	23
57	1	26	1	25	1	79	1	81	1	23	1	175	4	2	1	24
886	1	280	1	106	1	791	1	1,109	1	360	1	806	1	125	1	25
520	18	84	2	76	6	192	4	320	6	117	1	469	18	23	2	26
3,552	3	315	1	457	1	1,649	1	1,195	9	937	1	1,686	5	131	1	27
667	801	104	82	99	233	261	286	307	220	90	187	621	843	65	22	28
228	19	19	7	7	57	137	93	65	27	7	42	10	102	117	7	29
2,808	145	261	36	355	26	1,754	47	671	38	522	20	1,929	102	121	7	30
4,340	41	226	16	614	1	1,931	6	739	1	1,026	6	1,733	67	87	3	31
107	6	9	1	31	6	120	6	20	1	30	6	149	6	49	1	32
4,415	4,433	309	485	1008	2,824	2,210	5,149	567	1,045	1,986	1,935	2,260	9,292	100	187	33
275	20	66	5	92	29	107	4	258	1	47	1	329	8	6	4	34
46	13	13	1	29	5	40	2	29	7	17	1	281	5	3	1	35
10	3	3	1	5	1	11	1	21	1	6	1	17	1	3	1	36
63,459	37,210	12,037	3,498	11,805	10,254	58,545	67,714	36,092	5,599	19,427	11,997	73,190	38,802	7,169	1,165	37
1,891	22	216	11	342	5	983	18	768	16	436	8	1,740	70	107	1	38
1,575	8	236	1	23	1	720	9	965	1	161	1	1,453	5	138	1	39
376	1,171	44	105	58	128	146	485	247	273	59	162	438	454	18	27	40
1,982	330	413	39	572	20	2,069	78	1,888	76	1,160	62	3,512	3	228	9	41
928	1	114	1	286	1	383	1	622	1	282	1	1,623	106	75	1	42
70	1,465	15	181	41	1,339	136	2,507	128	423	25	858	54	1,807	16	70	43
51	9	33	6	16	2	40	15	78	4	11	1	134	1	41	1	44
202	9	33	6	53	2	225	15	102	4	60	14	389	23	84	1	45
41,448	1,878	8,465	64	9,244	87	42,070	3,102	24,041	59	14,971	120	54,398	475	4,785	9	46
812	10,724	233	217	79	283	237	12,916	820	374	57	865	309	1,420	77	91	47
79	491	8	187	48	318	95	1,070	29	204	31	154	151	807	6	24	48
405	60	48	12	51	7	147	56	259	37	50	14	233	47	26	1	49
1,842	37	263	1	40	1	268	14	1,084	8	267	9	3,940	64	156	3	50
8,329	20,984	967	2,667	677	8,056	8,390	47,987	4,048	4,106	1,339	9,701	3,206	33,463	642	927	51
81	15	15	1	29	1	140	5	25	1	29	1	95	1	8	1	52
1,796	766	766	1	1,323	1	1,323	1	1,097	1	2	1	27	1	754	1	53
1,405	149	149	1	1,062	6	1,062	6	432	3	458	3	1,369	2	52	1	54
207	27	19	8	113	9	113	46	59	18	29	32	120	56	6	2	55
75,209	1,824	10,548	540	13,834	717	56,649	1,877	28,421	845	22,239	734	63,830	4,790	5,172	86	56
4,578	101	1,055	25	505	16	2,245	24	3,057	34	658	13	4,098	107	158	8	57
39	8	8	1	14	1	95	1	41	1	26	1	38	1	1	1	58
807	25	201	4	128	1	210	1	785	13	60	1	499	5	60	1	59
138	1	1	1	34	1	565	1	106	1	227	1	195	1	3	1	60
2,868	132	531	31	442	135	1,427	63	1,451	103	469	38	2,862	592	155	10	61
78	10	10	1	12	1	102	1	28	1	15	1	47	1	1	1	62
9,894	448	1,548	211	1,818	254	8,597	508	3,066	245	2,538	277	8,825	1,992	679	27	63
1,442	14	151	6	286	2	648	1	296	2	327	2	1,714	15	35	1	64
7,009	11	1,565	3	2,403	1	5,084	1	3,778	1	2,408	1	8,217	1	732	1	65
1,072	1	159	1	221	2	639	2	385	1	332	1	1,007	11	137	1	66
1,023	1	94	1	341	1	870	1	298	1	246	1	1,161	1	82	1	67
913	33	114	5	280	7	549	60	104	5	243	3	863	27	9	1	68
768	1	68	1	194	1	260	1	305	1	97	1	739	1	34	1	69
2,775	2	416	1	584	1	1,375	1	670	1	1,225	1	2,050	1	487	1	70
1,555	5	122	1	183	4	582	4	465	2	244	4	1,111	26	54	1	71
1,702	33	77	6	224	2	800	25	264	3	470	9	860	25	23	1	72
2,970	91	154	10	459	8	1,710	119	707	8	605	39	1,850	94	48	2	73
160	1	34	1	2	1	102	1	115	1	21	1	151	3	15	1	74
67	1	8	1	1	1	27	1	49	1	7	1	65	1	4	1	75

STATISTICS OF POPULATION.

TABLE 3.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN EACH SPECIFIED

OCCUPATIONS.	PENNSYLVANIA.		RHODE ISLAND.		SOUTH CAROLINA.		SOUTH DAKOTA.		TENNESSEE.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
76 Trade and transportation—Continued.										
77 Merchants and dealers, not specified (retail).....	40,285	2,638	3,847	250	3,288	134	2,444	26	7,061	108
78 Merchants and dealers (wholesale), importers, and shipping merchants.....	1,924	27	210	1	128	1	85	.....	338	2
79 Messengers and errand and office boys.....	7,345	291	566	13	186	1	26	.....	441	15
80 Newspaper carriers and newsboys.....	679	5	21	.....	32	.....	2	.....	90	1
81 Officials of banks and of insurance, trade, transportation, trust, and other companies. (a)	4,501	12	289	1	225	.....	231	3	656	4
82 Packers and shippers.....	1,987	956	133	205	30	4	22	.....	110	15
83 Pilots.....	268	.....	33	.....	63	.....	3	.....	82	.....
84 Porters and helpers (in stores and warehouses)...	927	26	105	2	530	3	8	1	1,283	6
85 Sailors (a).....	1,770	.....	389	.....	409	.....	29	.....	304	.....
86 Salesmen and saleswomen.....	21,205	8,962	2,073	619	1,756	171	609	63	3,479	395
87 Steam railroad employes (not otherwise specified). (a)	42,525	179	1,203	10	4,017	23	2,430	3	8,425	32
88 Stenographers and typewriters.....	1,144	1,427	31	97	49	13	61	65	138	183
89 Street railway employes.....	3,686	1	478	.....	94	.....	18	.....	420	.....
90 Telegraph and telephone operators.....	5,115	954	125	102	270	19	220	18	632	78
91 Telegraph and telephonelinemen and electric light and power company employes.	912	23	137	22	24	.....	22	.....	93	1
92 Undertakers.....	1,233	19	104	.....	41	.....	12	.....	160	.....
93 Weighers, gaugers, and measurers.....	570	8	12	.....	11	.....	1	.....	34	.....
94 Other persons in trade and transportation.....	171	53	20	1	5	.....	1	.....	45	4
95 Manufacturing and mechanical industries.....	507,597	121,290	54,839	26,709	22,527	8,610	8,900	1,598	49,512	8,660
96 Agricultural implement makers (not otherwise classified). (a)	251	.....	27	.....	8	.....	4	.....	36	.....
97 Apprentices (blacksmiths).....	681	.....	38	.....	50	1	19	.....	38	.....
98 Apprentices (boot and shoe makers).....	92	2	6	.....	2	.....	.....	.....	2	.....
99 Apprentices (carpenters and joiners).....	1,122	1	74	.....	99	.....	6	.....	66	.....
100 Apprentices (carriage and wagon makers).....	119	.....	5	.....	4	.....	.....	.....	9	.....
101 Apprentices (dressmakers).....	.....	569	.....	42	.....	47	.....	12	.....	5
102 Apprentices (leather curriers, etc.).....	62	.....	3	.....	.....	.....	4	.....	1	.....
103 Apprentices (machinists).....	1,852	3	227	.....	32	.....	3	.....	51	.....
104 Apprentices (masons).....	293	.....	24	.....	21	.....	4	.....	14	.....
105 Apprentices (milliners).....	.....	141	.....	12	.....	3	.....	2	.....	3
106 Apprentices (painters).....	408	.....	26	1	10	.....	4	.....	5	.....
107 Apprentices (plumbers).....	518	1	51	.....	2	.....	.....	.....	28	.....
108 Apprentices (printers).....	634	13	34	.....	24	1	20	.....	27	1
109 Apprentices (tailors).....	232	80	13	10	27	2	5	.....	5	.....
110 Apprentices (tinsmiths).....	329	.....	19	.....	8	.....	.....	.....	31	.....
111 Apprentices (not otherwise specified).....	6,129	257	354	25	149	4	42	1	223	2
112 Artificial flower makers.....	43	314	.....	1	.....	.....	.....	.....	.....	1
113 Bakers.....	8,393	283	449	32	249	23	90	9	323	10
114 Basket makers.....	434	12	15	2	24	3	.....	.....	75	15
115 Blacksmiths.....	23,321	5	1,366	.....	1,379	1	1,001	.....	4,125	1
116 Bleachers, dyers, and scourers.....	2,743	99	1,663	290	21	3	5	.....	44	7
117 Bone and ivory workers.....	154	28	24	.....	.....	.....	.....	.....	.....	.....
118 Bookbinders.....	1,423	1,446	61	43	26	15	14	10	85	76
119 Boot and shoe makers and repairers.....	16,720	1,936	583	29	568	7	229	1	1,241	10
120 Bottlers and mineral and soda water makers.....	1,030	33	68	2	7	.....	9	.....	29	.....
121 Box makers (paper).....	583	1,619	69	357	.....	2	.....	.....	2	24
122 Box makers (wood).....	724	238	115	13	2	.....	1	.....	128	.....
123 Brass workers (not otherwise specified) (a).....	1,606	41	81	.....	.....	.....	.....	.....	25	.....
124 Brewers and maltsters (a).....	1,978	6	50	.....	18	.....	26	.....	79	.....
125 Brick and tile makers and terra cotta workers (a).....	6,784	23	157	.....	333	.....	128	.....	1,116	4
126 Britannia workers.....	37	3	8	.....	.....	.....	.....	.....	.....	.....
127 Broom and brush makers.....	1,113	83	36	29	2	.....	18	.....	84	.....
128 Builders and contractors.....	4,715	.....	276	.....	214	.....	164	.....	759	.....
129 Butchers.....	12,510	31	513	.....	431	1	411	.....	804	.....
130 Butter and cheese makers.....	581	24	34	.....	9	.....	48	2	25	.....
131 Button makers.....	149	72	31	31	.....	.....	.....	.....	.....	.....
132 Cabinet makers.....	3,756	.....	205	.....	93	.....	31	.....	450	.....
133 Candle, soap, and tallow makers.....	285	52	79	3	3	.....	.....	.....	29	4
134 Carpenters and joiners.....	60,728	11	4,823	2	4,705	3	2,457	.....	10,693	1
135 Carpet makers (a).....	4,540	2,602	78	22	.....	4	.....	7	11	41
136 Carriage and wagon makers (not otherwise classified). (a)	3,361	22	102	.....	111	.....	111	.....	507	.....
137 Charcoal, coke, and lime burners.....	3,338	4	5	.....	13	.....	1	.....	234	.....
138 Chemical works employes (a).....	407	142	70	31	13	.....	.....	.....	20	10
139 Clock and watch makers and repairers.....	1,734	254	144	15	82	.....	31	.....	135	.....
140 Compositors (a).....	2,222	201	128	47	128	15	150	51	285	11
141 Confectioners.....	2,342	824	125	21	38	9	39	.....	209	23
142 Coopers.....	3,399	6	93	1	467	.....	35	5	639	1
143 Copper workers.....	304	2	36	.....	17	.....	.....	.....	35	.....
144 Corset makers.....	15	83	9	12	.....	.....	.....	.....	.....	.....
145 Cotton mill operatives (a).....	4,057	4,679	8,790	9,570	3,580	3,220	.....	.....	751	1,023
146 Distillers and rectifiers (a).....	317	.....	.....	83	.....	.....	.....	.....	109	.....
147 Door, sash, and blind makers (a).....	209	.....	38	.....	39	.....	.....	.....	35	.....
148 Dressmakers.....	40	34,126	5	3,075	.....	1,791	.....	924	4	1,989
149 Electroplaters.....	285	3	80	.....	3	.....	.....	.....	11	.....
150 Electrotypers and stereotypers (a).....	156	1	14	.....	.....	.....	.....	.....	.....	.....
151 Engravers.....	910	123	290	5	5	.....	.....	.....	32	.....
152 Fertilizer makers (a).....	28	.....	11	.....	160	2	.....	.....	.....	.....
153 Fish curers and packers (a).....	17	.....	6	.....	.....	.....	.....	.....	.....	.....
154 Gas works employes (a).....	981	1	90	.....	27	.....	.....	.....	70	.....
155 Glass workers.....	11,769	659	26				3		13	

a See explanatory notes in Table 2.

OCCUPATIONS.

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OCCUPATION, CLASSIFIED BY SEX, BY STATES AND TERRITORIES: 1890—Continued.

TEXAS.		UTAH.		VERMONT.		VIRGINIA.		WASHINGTON.		WEST VIRGINIA.		WISCONSIN.		WYOMING.	
Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
10,982	242	1,328	44	1,943	31	8,363	303	3,390	50	3,245	71	9,581	258	375	7
338	2	54		65		457	2	200	1	86	1	439	2	9	
472	11	114	2	77		656	13	175	3	131	5	556	20	23	
94		6		11		68	1	20		29		78	1	3	
686	1	184		313	2	575		429	2	259	1	715	2	88	
211	3	77		55	3	108	26	51	5	95	42	360	145	9	
36				7		101		23		102		55			
676	3	19	1	12		778	6	52		72		195	6	8	1
895		21		41		1,789		1,611	1	120		1,453	1	14	
5,304	341	544	92	801	136	2,884	501	1,551	156	1,019	151	3,205	781	101	11
13,443	47	1,564	4	2,010	5	13,436	52	4,157	4	6,003	13	8,688	13	1,616	1
243	142	33	39	31	67	110	100	153	147	42	30	218	459	11	10
570		104		69		303		144		295		364		26	
1,111	132	134	54	183	40	836	56	367	56	396	32	1,196	164	155	8
115		28		31		97		114		32		150	1	8	
83		19		40		150		38		50		135		5	
86		4		2		45		3		28	1	50		3	
16	2	1		6	2	16	2	23		7		40	38	1	
51,159	6,906	11,595	1,757	24,602	5,100	63,305	14,309	34,579	2,403	27,387	3,455	108,490	20,805	4,314	320
29		2		15		20				2		151			
57		12		35		87		11		32		133		1	
4				2		7		4		5		40			
95		29		27		164		13		50		140		3	
3		1		2		7		1		3		30		1	
5	4	1	17		13	2	4		7		6		146		1
74		3		41		108		24		111		17			
7		16		15		32		5		6		231		10	
	6		2		7		2		5		4		29		
25		9	1	9		36		8		9		58			
10		20		15		30		29		11		93		2	
30		18	2	26	2	68	1	23		25		108	2	6	1
10		1		14	2	1	1	3	1	5		41	16	3	
20		1		29		2		2		13		111	1	4	
225	4	58	2	177	4	380	9	85	4	179	3	1,104	37	8	
	2				1		2						15		
716	19	131	5	128	5	466	14	412	8	189	5	1,075	69	52	1
17		10	2	33	5	86	59	5	1	23	2	168	7		
4,146	1	800		1,577		4,514		1,622		2,311		6,097	2	427	1
46	5	13	1	40	16	60	14	21	2	27	2	102	9	9	
		1													
91	38	27	18	21	25	75	59	58	20	12	12	206	123	7	3
1,215	10	482	37	550	64	2,322	56	477	2	862	5	3,804	614	93	1
44		14		9	1	37		50	1	19		212	138	2	
	4	1	3	38	22	21	282				21	9	116		
9				112	8	181	19	8		18		325	47		
13		9		31		10		12		4		270	31	3	
110		70		5		38		168	1	68		1,849	38	22	
930	2	432	1	175		1,464	3	1,175		803		1,253	1	67	
70	3	18		22	1	59	1	20		27	4	160	4		
1,046		395		113		586		1,077		323	1	881		91	
2,090	1	344		339		826	1	897	2	478		2,955		143	1
15		7	1	192	6	49	5	20		14		1,690		1	
		1	1												
264		62		126		367		252	1	195		763	2	19	
18		2	1	0		12		11	1	5		80	15	2	
13,252	7	2,992	4	3,912		13,126	5	10,779	4	5,072	1	17,163	1	1,060	1
	14	23	30	10	21	8	10		5	11	18	144	120		
278		54		120		500	1	160		258		1,604	14	18	
80		33		58		93		62		463	1	121		3	
11	2			19	1	19				5		40	23		
225		62		61	1	151		128	1	53		336	3	16	
430	57	61	29	78	87	217	5	300	44	72	22	437	191	21	3
866	30	43	8	26	6	223	20	130	17	74	3	379	115	14	
154		29		254		935		165		513		1,913	1	5	
38		10		7		35		9		12		52		8	
850	109			305	304	778	827	1				186	245		
14				1		80		4		25		32			
6				56		38		78				290	3		
	2,115	2	973		1,735		2,274	11	1,462		1,114	9	8,718		196
2		1		22		3		7		2		31		1	
9						7						13			
22		10		5	1	23		14		16			1	6	
				1		20				1					
6		3		9		12		61				4			
24		10		10		52		23		28		85			
6				10		7		7		776	89	146	5	2	

TABLE 3.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN EACH SPECIFIED

OCCUPATIONS.	PENNSYLVANIA.		RHODE ISLAND.		SOUTH CAROLINA.		SOUTH DAKOTA.		TENNESSEE.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Manufacturing and mechanical industries—Cont'd.										
155 Glove makers.....	38	22	1	3					72	
156 Gold and silver workers.....	1,383	387	2,460	695	26		37		81	
157 Gunsmiths, locksmiths, and bell hangers.....	797	5	30	1	27		13			
158 Hair workers.....	76	43	82	26					2	
159 Harness and saddle makers and repairers.....	3,568	42	232	24	111		276		670	2
160 Hat and cap makers.....	1,900	645	63	22	5				7	2
161 Hosiery and knitting mill operatives (a).....	1,546	5,002	230	463		11			1	29
162 Iron and steel workers (a).....	52,122	375	1,727	279	85		20		1,335	4
163 Lace and embroidery makers.....	102	592		16		12				7
164 Lead and zinc workers.....	500	6	7		4				7	
165 Leather curriers, dressers, finishers, and tanners.....	7,169	52	169		25		16		438	
166 Machinists.....	24,003	10	4,308	1	572		132		1,495	
167 Manufacturers and officials of manufacturing companies.....	12,240	29	1,264		361	2	158		1,128	3
168 Marble and stone cutters.....	7,048	4	798		238		258		895	1
169 Masons (brick and stone).....	19,167	3	1,559	1	1,061		649		2,594	
170 Meat and fruit packers, canners, and preservers (a).....	160	54	42	2	3				10	6
171 Mechanics (not otherwise specified).....	592	3	75		321		23		734	1
172 Metal workers (not otherwise specified).....	2,248	101	148	36	9	1	1		35	
173 Mill and factory operatives (not specified) (a).....	11,284	9,332	3,179	3,196	901	500	22	20	468	248
174 Millers (flour and grist).....	5,679	1	72		579		245		1,929	4
175 Milliners.....	15	5,758		456		277		277		764
176 Model and pattern makers.....	1,699	17	108	2	19		1		60	
177 Molders.....	9,718	6	897		67		20		713	
178 Musical instrument makers (not otherwise specified) (a).....	86	4								
179 Nail and tack makers (a).....	838	26	22						26	
180 Oil well employes.....	7,048	7								
181 Oil works employes.....	1,831	4	31	1	43				82	1
182 Painters, glaziers, and varnishers.....	20,036	129	2,293	4	783		459		2,257	5
183 Paper hangers.....	2,253	5	99		4		15		118	1
184 Paper mill operatives.....	1,825	817	89	22	14	6			13	8
185 Photographers.....	1,676	104	111	18	71	4	95	12	233	10
186 Piano and organ makers and tuners (a).....	693	25	84	1	15		13		41	
187 Plasterers.....	5,169	2	179		135		122		678	
188 Plumbers and gas and steam fitters.....	6,175	2	653		77	1	55		415	
189 Potters.....	963	108	33	1	20		1		87	
190 Powder and cartridge makers.....	158	10								
191 Printers, lithographers, and pressmen (a).....	8,040	661	478	32	299	15	312	14	975	41
192 Print works operatives (a).....	563	161	629	187						
193 Publishers of books, maps, and newspapers.....	569	17	22		9		45		52	
194 Roofers and slaters.....	1,354		46		11		1		35	
195 Rope and cordage makers.....	842	591	25	19					1	2
196 Rubber factory operatives.....	264	159	920	730						
197 Sail, awning, and tent makers.....	260	18	37	5	14		1		1	
198 Salt works employes.....	78									
199 Saw and planing mill employes (a).....	7,955	2	118		824	2	194		3,439	4
200 Seamstresses (a).....	262	14,514	3	571		2,317		217	6	3,479
201 Sewing machine makers (not otherwise classified) (a).....	40		13	1					2	
202 Sewing machine operators (a).....	36	582	6	40		4			1	5
203 Ship and boat builders.....	2,159		118		100		5		36	
204 Shirt, collar, and cuff makers (a).....	326	1,491	11	59		7		1	52	27
205 Silk mill operatives (a).....	1,570	4,312	65	101	1					
206 Starch makers.....	9									
207 Steam boiler makers.....	3,581	1	196		49		16		172	
208 Stove, furnace, and grate makers (a).....	1,650	1	69		5				153	
209 Straw workers.....	55	58	6	4	3					
210 Sugar makers and refiners.....	590		6		1					
211 Tailors and tailoresses (a).....	12,089	8,402	635	403	269	57	175	25	550	189
212 Tanners and tinware makers.....	6,194	100	354		203	4	179		796	6
213 Tobacco and cigar factory operatives.....	12,882	5,279	124	115	35	1	85	3	539	155
214 Tool and cutlery makers (not otherwise classified) (a).....	3,128	73	619	41			1		52	
215 Trunk, valise, leather-case, and pocket-book makers.....	521	188	9				1		82	
216 Umbrella and parasol makers.....	483	969	8	1	2					
217 Upholsterers.....	2,611	870	203	13	65	5	12		151	11
218 Well borers.....	688		3		9		55		68	
219 Wheelwrights.....	1,906		137		169		18		111	
220 Whitewashers.....	224		44		32		1		106	
221 Wire workers.....	1,331	91	69	136	4				28	
222 Wood workers (not otherwise specified).....	5,752	629	411	29	152	6	13		824	16
223 Woolen mill operatives (a).....	7,135	6,297	6,088	5,055	24	12	6	3	289	278
224 Other persons in manufacturing and mechanical industries.....	7,693	1,819	478	173	1,376	109	40	2	603	87

a See explanatory notes in Table 2.

OCCUPATION, CLASSIFIED BY SEX, BY STATES AND TERRITORIES: 1890—Continued.

TEXAS.		UTAH.		VERMONT.		VIRGINIA.		WASHINGTON.		WEST VIRGINIA.		WISCONSIN.		WYOMING.		
Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	
		1	3		2	12	35	2	1	5	4	40	45			155
88		12		22		80		36		58		82		4		156
147		28		14		65		55		40		149		3		157
	2				3	1	3					5	14			158
1,162	4	204		286		495		302		318		1,383	5	72		159
		6	1	6	2	21	15	8	1	11		62	78	1		160
10	17	2	21	178	276	62	86		1	3	10	113	730			161
249	4	64		410	6	1,833	15	195		1,853	8	1,943	12	131		162
	18		6		4		13		3				35		3	163
				8		123	1					89	7			164
81		31		107		559	1	39		355		1,940	14			165
1,891		392	1	1,076		1,973		974	1	866		3,794		534		166
874	5	169		973	1	1,225	5	612		479		2,466	7	31	1	167
588		238		2,977	2	789		354		497		1,052		32		168
2,385	1	972		809		2,708	1	1,697		1,212		4,742		312		169
16	4			1		10	8	81	1	8		39	11			170
668		36		135		472		99		87		209		29		171
39		89	1	48		87	2	26		111	4	67	4	1		172
830	68	152	58	384	122	615	395	182	5	109	54	1,410	354	5	2	173
1,023	3	232	1	346		2,293	2	348	1	966		1,937	1	24		174
	1,101		212		437		580	-5	337		406		5	1,876	48	175
44		10		24		92	2	54		31		253		1		176
237		89		309		686		292		186		1,879		11		177
2		1		1						1		4				178
2				28	1	71				328	1	19	3			179
		2		2		1				262						180
124		2		2		14				174		15		5		181
2,898	8	625		1,331	5	2,235		1,897	2	936	9	5,381	40	203		182
77		35		20		116		94		20	1	146		9		183
				353	74	48	20	63	1	70	13	819	356			184
431	23	77	4	123	8	152		211	21	118	4	595	97	21	1	185
57		3		311	28	39		24		9		81		4		186
336		222		12		1,007	1	742		300		530	1	71		187
347		168		129		414		676		141		875		43		188
60		8		19		45	2	28		390	135	88	2	1		189
						3	2					15				190
1,445	60	251	11	205	23	842	40	775	32	325	13	1,631	105	250	4	191
		2		10	9					11		19				192
97		14		16		36		60		16		123	2	12		193
30		10		75		28		12		17		59				194
12		3					1	4								195
				1							1	57	99			196
												33	63			197
17		14	1			55	2	22	1			33	14			198
3		6				43				46						199
4,256	1	151		2,270		3,987		3,656	4	1,890		13,217	108	50		200
																201
	2,975	3	100	3	542	7	5,003		314		1,058	36	3,232			202
3												3				203
																204
87		8		19		547		430		75		2	53			205
19	12	11	1	20	259	18	37	4	1	6		427	41	1		206
																207
		10	6	3	1	51	107				1					208
																209
245		57		22		356		106		210		497		74		210
3		1		6		79		11		52		85		2		211
1			7		7							31	53			212
																213
3				8								1		1		214
812	69	308	40	197	204	578	270	510	69	332	189	2,960	1,181	64	4	215
821	4	145		319	1	807		402		327	2	1,502	50	42		216
180	4	60	3	74	10	5,882	3,479	213	6	473	157	1,906	274	30		217
90		3	1	68		32		60		72	1	352	8	2		218
																219
																220
24				2		164	1	9		8		461	20			221
																222
		1		1		3				1	1	3				223
166	5	33	1	59	6	211	4	99		34	2	549	40	13		224
210		24				16		22		51		236		17		
294		37		289		773		50		60		188		11		
21		13		6	1	158		11		10		61				220
16		2		8		7		8		3		135	13			221
270	5	63	2	639	30	462	18	240	1	193		2,670	237	20		222
71	34	69	32	770	630	176	85			70	34	331	378	6		223
628	43	103	4	246	33	1,173	374	348	5	248	29	1,335	148	20		224

STATISTICS OF POPULATION.

TABLE 4.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY GENERAL NATIVITY AND COLOR, BY STATES AND TERRITORIES: 1890.

ALL OCCUPATIONS.

STATES AND TERRITORIES.	Total white.	NATIVE WHITE.			Foreign white.	Total colored. (a)	Persons of negro descent.
		Total.	Native parents.	Foreign parents.			
The United States.....	19,542,188	14,437,431	10,895,023	3,542,408	5,104,757	3,193,473	3,073,164
North Atlantic division.....	6,827,709	4,628,589	3,110,562	1,518,027	2,199,120	143,751	136,148
Maine.....	256,192	213,295	189,847	23,448	42,897	904	554
New Hampshire.....	164,288	120,701	105,118	15,583	43,587	415	349
Vermont.....	128,289	104,899	83,537	21,362	23,390	482	431
Massachusetts.....	970,255	589,195	378,888	210,307	381,060	12,189	11,028
Rhode Island.....	152,017	89,636	53,672	35,964	62,381	3,861	3,689
Connecticut.....	310,614	204,996	135,715	69,281	105,618	6,400	6,028
New York.....	2,395,422	1,517,056	869,252	647,804	878,366	40,303	36,936
New Jersey.....	546,156	362,665	239,488	123,177	183,491	24,582	23,884
Pennsylvania.....	1,904,476	1,426,146	1,055,045	371,101	478,330	54,615	53,239
South Atlantic division.....	1,772,368	1,658,553	1,540,464	118,089	113,815	1,345,688	1,344,140
Delaware.....	51,897	44,475	37,758	6,717	7,422	12,389	12,350
Maryland.....	297,227	245,793	186,102	59,691	51,434	96,040	95,811
District of Columbia.....	61,015	50,771	39,754	11,017	10,244	40,104	40,007
Virginia.....	310,487	300,296	291,718	8,578	10,191	241,352	241,095
West Virginia.....	209,069	199,171	184,616	14,555	10,498	14,119	14,101
North Carolina.....	320,277	318,045	315,578	2,467	2,232	217,086	216,596
South Carolina.....	151,197	147,418	143,510	3,908	3,779	289,657	289,550
Georgia.....	290,330	291,835	284,989	6,846	7,495	369,383	369,265
Florida.....	71,269	60,749	56,439	4,310	10,520	65,558	65,371
North Central division.....	7,491,329	5,317,726	3,782,479	1,535,247	2,173,603	182,509	175,757
Ohio.....	1,236,659	996,674	720,477	276,197	239,985	36,127	35,876
Indiana.....	705,004	626,635	522,581	104,054	78,369	19,054	18,858
Illinois.....	1,328,813	871,551	580,415	291,136	457,262	24,746	23,983
Michigan.....	751,199	465,885	311,118	154,767	285,314	8,376	6,394
Wisconsin.....	574,104	308,012	121,754	186,258	266,082	2,186	1,060
Minnesota.....	466,553	209,434	102,606	106,828	257,119	2,533	2,102
Iowa.....	627,407	454,489	325,347	129,142	172,918	4,428	4,345
Missouri.....	823,285	688,245	544,274	143,971	135,040	61,094	60,655
North Dakota.....	67,512	24,494	13,728	10,766	43,018	259	169
South Dakota.....	113,432	64,919	42,326	22,593	48,513	661	327
Nebraska.....	362,511	251,544	197,154	54,390	110,967	5,549	4,699
Kansas.....	434,850	355,844	300,699	55,145	79,006	17,496	17,289
South Central division.....	2,231,058	2,048,201	1,888,355	159,846	182,857	1,404,756	1,401,944
Kentucky.....	482,002	449,877	401,853	48,024	32,725	107,722	107,666
Tennessee.....	387,896	375,822	364,604	11,218	12,074	165,857	165,734
Alabama.....	247,993	239,126	231,710	7,416	8,867	293,609	293,406
Mississippi.....	157,955	152,747	146,993	5,754	5,208	304,784	303,837
Louisiana.....	179,324	150,832	114,917	35,915	28,492	243,750	243,157
Texas.....	525,393	440,460	397,738	42,722	84,933	170,815	170,085
Oklahoma.....	19,793	18,100	16,597	1,503	1,693	1,113	1,083
Arkansas.....	230,102	221,237	213,943	7,294	8,865	117,106	116,976
Western division.....	1,219,724	784,362	573,163	211,199	435,362	116,769	15,175
Montana.....	68,528	38,580	27,078	11,502	29,948	3,695	1,111
Wyoming.....	29,527	19,733	14,373	5,360	9,794	1,103	638
Colorado.....	186,937	131,450	104,748	26,702	55,487	5,006	3,583
New Mexico.....	49,744	42,691	38,724	3,967	7,053	4,407	1,044
Arizona.....	23,634	13,536	10,051	3,485	10,098	2,782	1,162
Utah.....	65,650	38,645	20,041	18,604	27,005	1,251	349
Nevada.....	19,217	10,579	6,889	3,690	8,638	4,198	152
Idaho.....	33,206	22,676	16,660	6,016	10,530	1,966	104
Washington.....	159,297	99,281	77,260	22,021	60,016	5,399	1,055
Oregon.....	116,850	85,593	71,710	13,883	31,257	9,931	635
California.....	467,134	281,598	185,629	95,969	185,586	77,031	5,342

a Persons of negro descent, Chinese, Japanese, and civilized Indians.

TABLE 4.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY GENERAL NATIVITY AND COLOR, BY STATES AND TERRITORIES: 1890—Cont'd.

AGRICULTURE, FISHERIES, AND MINING.

STATES AND TERRITORIES.	Total white.	NATIVE WHITE.			Foreign white.	Total colored. (a)	Persons of negro descent.
		Total.	Native parents.	Foreign parents.			
The United States	7, 222, 925	5, 917, 024	5, 122, 613	794, 411	1, 305, 901	1, 790, 411	1, 757, 403
North Atlantic division.....	1, 251, 574	1, 004, 699	850, 362	154, 337	246, 875	14, 376	13, 916
Maine	86, 104	78, 691	72, 937	5, 954	7, 213	192	106
New Hampshire	42, 920	38, 721	37, 054	1, 667	4, 199	62	60
Vermont	56, 061	48, 120	41, 087	7, 033	7, 941	122	113
Massachusetts.....	80, 440	55, 605	48, 448	7, 157	24, 835	660	605
Rhode Island.....	12, 317	9, 382	8, 651	731	2, 935	289	272
Connecticut	47, 759	36, 673	32, 688	3, 985	11, 086	917	880
New York.....	406, 988	330, 080	265, 518	64, 562	76, 908	3, 144	3, 055
New Jersey.....	70, 673	56, 923	50, 179	6, 744	13, 750	4, 216	4, 195
Pennsylvania.....	448, 312	350, 304	293, 800	56, 504	98, 008	4, 774	4, 629
South Atlantic division.....	948, 279	930, 455	913, 153	17, 302	17, 824	766, 039	765, 441
Delaware	14, 510	13, 826	13, 298	528	684	4, 192	4, 192
Maryland.....	75, 137	68, 466	61, 919	6, 547	6, 671	30, 259	30, 257
District of Columbia.....	1, 317	983	808	175	334	569	568
Virginia.....	167, 751	165, 433	163, 850	1, 583	2, 318	103, 994	103, 913
West Virginia.....	125, 047	121, 541	117, 231	4, 310	3, 506	4, 840	4, 840
North Carolina.....	233, 648	233, 008	231, 955	1, 053	640	140, 711	140, 287
South Carolina.....	104, 463	103, 866	102, 963	903	617	223, 534	223, 496
Georgia.....	191, 525	190, 725	189, 542	1, 183	800	226, 603	226, 570
Florida.....	34, 861	32, 607	31, 587	1, 020	2, 254	31, 337	31, 318
North Central division.....	3, 199, 057	2, 361, 700	1, 836, 660	525, 040	837, 357	40, 046	37, 480
Ohio.....	422, 683	371, 406	306, 862	64, 544	51, 277	6, 336	6, 307
Indiana.....	327, 208	299, 972	263, 594	36, 378	27, 236	3, 361	3, 310
Illinois.....	452, 017	348, 312	266, 610	81, 702	103, 705	4, 471	4, 457
Michigan.....	306, 130	198, 472	143, 195	55, 277	107, 658	2, 371	1, 502
Wisconsin.....	241, 263	122, 186	50, 377	71, 809	119, 077	836	172
Minnesota.....	195, 189	75, 046	32, 604	42, 382	120, 143	233	74
Iowa.....	329, 398	229, 576	166, 586	62, 990	99, 822	992	984
Missouri.....	388, 572	353, 767	316, 778	36, 989	34, 805	16, 093	16, 079
North Dakota.....	43, 911	13, 448	7, 409	6, 039	30, 463	44	35
South Dakota.....	70, 677	36, 267	23, 359	12, 908	34, 410	162	34
Nebraska.....	169, 759	110, 713	86, 349	24, 364	59, 046	815	245
Kansas.....	252, 250	202, 535	172, 877	29, 658	49, 715	4, 332	4, 281
South Central division.....	1, 407, 291	1, 346, 285	1, 305, 415	40, 870	61, 006	939, 913	938, 467
Kentucky.....	286, 610	280, 401	272, 747	7, 654	6, 209	39, 475	39, 464
Tennessee.....	252, 023	249, 511	246, 948	2, 563	2, 512	84, 863	84, 824
Alabama.....	168, 258	165, 580	163, 746	1, 834	2, 678	212, 594	212, 485
Mississippi.....	113, 358	112, 017	110, 248	1, 769	1, 341	246, 691	245, 921
Louisiana.....	79, 192	73, 793	70, 335	3, 458	5, 399	161, 538	161, 244
Texas.....	325, 563	287, 234	267, 767	19, 467	38, 329	106, 755	106, 587
Oklahoma.....	13, 274	12, 308	11, 447	861	966	654	652
Arkansas.....	169, 013	165, 441	162, 177	3, 264	3, 573	87, 343	87, 290
Western division.....	416, 724	273, 885	217, 023	56, 862	142, 839	30, 037	2, 099
Montana.....	25, 229	14, 102	10, 417	3, 685	11, 127	551	41
Wyoming.....	10, 758	6, 924	5, 321	1, 603	3, 834	443	141
Colorado.....	58, 951	40, 327	33, 210	7, 117	18, 624	292	184
New Mexico.....	23, 707	20, 902	19, 529	1, 373	2, 805	2, 904	166
Arizona.....	10, 002	6, 203	4, 835	1, 368	3, 799	526	29
Utah.....	23, 922	13, 799	6, 682	7, 117	10, 123	161	21
Nevada.....	9, 180	4, 594	3, 126	1, 468	4, 586	1, 356	42
Idaho.....	17, 822	12, 506	9, 475	3, 031	5, 316	992	17
Washington.....	46, 676	30, 044	24, 556	5, 488	16, 632	1, 267	252
Oregon.....	49, 503	38, 055	33, 265	4, 790	11, 448	1, 477	108
California.....	140, 974	86, 429	66, 607	19, 822	54, 545	20, 068	1, 098

(a) Persons of negro descent, Chinese, Japanese, and civilized Indians.

STATISTICS OF POPULATION.

TABLE 4.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY GENERAL NATIVITY AND COLOR, BY STATES AND TERRITORIES: 1890—Cont'd.

PROFESSIONAL SERVICE.

STATES AND TERRITORIES.	Total white.	NATIVE WHITE.			Foreign white.	Total colored. (a)	Persons of negro descent.
		Total.	Native parents.	Foreign parents.			
The United States.....	909, 186	795, 073	640, 785	154, 288	114, 113	35, 147	33, 994
North Atlantic division.....	297, 157	254, 425	197, 107	57, 318	42, 732	2, 311	2, 219
Maine.....	12, 349	11, 707	10, 901	806	642	15	10
New Hampshire.....	6, 826	6, 399	5, 994	405	427	5	5
Vermont.....	6, 271	5, 831	5, 147	684	440	5	3
Massachusetts.....	43, 017	37, 476	30, 608	6, 868	5, 541	230	219
Rhode Island.....	5, 389	4, 691	3, 875	816	698	57	56
Connecticut.....	12, 409	11, 182	9, 241	1, 941	1, 227	76	71
New York.....	114, 624	92, 318	64, 141	28, 177	22, 306	752	706
New Jersey.....	21, 992	18, 332	14, 068	4, 264	3, 660	371	369
Pennsylvania.....	74, 280	66, 489	53, 132	13, 357	7, 791	800	780
South Atlantic division.....	79, 464	74, 985	69, 193	5, 792	4, 479	12, 897	12, 872
Delaware.....	2, 081	1, 970	1, 708	262	111	132	129
Maryland.....	13, 660	12, 211	9, 976	2, 235	1, 449	916	914
District of Columbia.....	6, 581	5, 759	4, 873	886	822	727	725
Virginia.....	15, 123	14, 540	14, 050	490	583	2, 572	2, 566
West Virginia.....	8, 432	8, 185	7, 569	616	247	230	229
North Carolina.....	10, 106	9, 925	9, 726	199	181	2, 190	2, 184
South Carolina.....	6, 143	5, 961	5, 656	305	182	2, 050	2, 048
Georgia.....	12, 888	12, 495	12, 014	481	393	3, 081	3, 078
Florida.....	4, 450	3, 939	3, 621	318	511	999	999
North Central division.....	367, 199	318, 845	246, 625	72, 220	48, 354	4, 148	4, 012
Ohio.....	61, 038	55, 506	44, 766	10, 740	5, 532	875	863
Indiana.....	34, 045	31, 983	27, 847	4, 136	2, 062	474	456
Illinois.....	62, 512	52, 418	39, 308	13, 110	10, 094	610	602
Michigan.....	33, 291	26, 681	19, 402	7, 279	6, 610	199	154
Wisconsin.....	24, 227	19, 408	10, 422	8, 986	4, 819	51	38
Minnesota.....	22, 692	17, 488	11, 297	6, 191	5, 204	75	70
Iowa.....	37, 670	34, 171	25, 757	8, 414	3, 409	92	80
Missouri.....	33, 225	34, 014	28, 559	5, 455	4, 211	1, 240	1, 234
North Dakota.....	3, 049	2, 043	1, 383	660	1, 006	9	7
South Dakota.....	5, 982	5, 049	3, 760	1, 289	933	13	3
Nebraska.....	19, 459	17, 072	14, 128	2, 944	2, 387	80	70
Kansas.....	25, 009	23, 012	19, 996	3, 016	1, 997	430	426
South Central division.....	99, 687	93, 555	86, 652	6, 903	6, 132	14, 576	14, 549
Kentucky.....	20, 319	19, 231	17, 579	1, 652	1, 088	1, 831	1, 826
Tennessee.....	17, 119	16, 565	15, 880	685	554	2, 331	2, 328
Alabama.....	9, 990	9, 601	9, 180	421	389	1, 962	1, 961
Mississippi.....	8, 113	7, 902	7, 561	341	211	2, 749	2, 745
Louisiana.....	8, 417	7, 217	5, 561	1, 656	1, 200	1, 609	1, 606
Texas.....	25, 523	23, 233	21, 557	1, 676	2, 290	2, 600	2, 595
Oklahoma.....	991	937	859	78	54	26	25
Arkansas.....	9, 215	8, 869	8, 475	394	346	1, 468	1, 463
Western division.....	65, 679	53, 263	41, 208	12, 055	12, 416	1, 215	342
Montana.....	2, 863	2, 284	1, 800	484	579	37	29
Wyoming.....	1, 141	960	749	211	181	62	59
Colorado.....	9, 731	8, 282	6, 904	1, 378	1, 449	99	88
New Mexico.....	1, 692	1, 392	1, 208	184	300	20	10
Arizona.....	1, 088	856	695	161	232	7	3
Utah.....	2, 836	2, 106	1, 381	725	730	7	1
Nevada.....	1, 020	846	577	269	174	40	.....
Idaho.....	1, 291	1, 095	855	240	196	4	.....
Washington.....	8, 189	6, 670	5, 479	1, 191	1, 519	25	17
Oregon.....	6, 776	5, 823	4, 978	845	953	150	28
California.....	29, 052	22, 949	16, 582	6, 367	6, 103	764	107

a Persons of negro descent, Chinese, Japanese, and civilized Indians.

TABLE 4.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY GENERAL NATIVITY AND COLOR, BY STATES AND TERRITORIES: 1890—Cont'd.**DOMESTIC AND PERSONAL SERVICE.**

STATES AND TERRITORIES.	Total white.	NATIVE WHITE.			Foreign white.	Total colored. (a)	Persons of negro descent.
		Total.	Native parents.	Foreign parents.			
The United States	3,334,184	1,959,117	1,342,028	617,089	1,375,067	1,026,393	963,080
North Atlantic division	1,425,735	733,382	473,655	259,727	692,353	97,778	91,420
Maine	40,649	29,193	24,639	4,554	11,456	442	302
New Hampshire	23,485	14,507	12,187	2,320	8,978	226	165
Vermont	21,776	16,203	11,353	4,850	5,573	283	245
Massachusetts	177,720	66,760	39,946	26,814	110,960	8,218	7,210
Rhode Island	26,463	10,183	6,064	4,119	16,280	2,443	2,330
Connecticut	56,070	24,677	14,612	10,065	31,393	4,003	3,706
New York	525,938	237,697	124,065	113,632	288,241	28,499	25,596
New Jersey	113,831	53,785	33,999	19,786	60,046	15,691	15,057
Pennsylvania	439,803	280,377	206,790	73,587	159,426	37,973	36,809
South Atlantic division	177,583	149,611	131,904	17,707	27,972	414,229	413,467
Delaware	9,677	6,881	5,626	1,255	2,796	6,545	6,509
Maryland	50,654	36,075	26,283	9,792	14,579	51,647	51,431
District of Columbia	10,213	6,841	5,219	1,622	3,372	29,510	29,421
Virginia	30,767	28,973	27,819	1,154	1,794	95,492	95,383
West Virginia	25,431	23,461	21,226	2,235	1,970	5,993	5,977
North Carolina	19,225	18,998	18,828	170	227	52,039	51,986
South Carolina	6,956	6,356	6,046	310	600	44,816	44,775
Georgia	16,455	15,205	14,624	581	1,250	104,397	104,330
Florida	8,205	6,821	6,233	588	1,384	23,790	23,655
North Central division	1,270,239	774,767	504,991	269,776	495,472	108,912	105,356
Ohio	233,319	165,100	113,824	51,276	68,219	21,970	21,774
Indiana	115,206	98,278	80,358	17,920	16,928	11,912	11,799
Illinois	252,489	129,596	79,483	50,113	122,893	15,616	14,927
Michigan	147,756	78,179	47,597	30,582	69,577	4,454	3,597
Wisconsin	110,978	53,289	17,481	35,808	57,689	1,020	642
Minnesota	92,851	33,583	13,310	20,273	59,268	1,842	1,601
Iowa	83,223	55,850	36,902	18,948	27,373	2,709	2,638
Missouri	112,390	80,965	55,835	25,130	31,425	34,906	34,517
North Dakota	9,092	3,233	1,408	1,825	5,859	190	112
South Dakota	13,590	7,591	4,299	3,292	5,999	321	150
Nebraska	55,409	34,053	25,562	8,491	21,356	3,863	3,624
Kansas	43,936	35,050	28,932	6,118	8,886	10,109	9,975
South Central division	192,117	153,621	127,432	26,189	38,496	343,592	342,474
Kentucky	46,656	39,736	32,401	7,335	6,920	51,613	51,577
Tennessee	29,321	27,203	25,971	1,232	2,118	56,018	55,960
Alabama	14,582	13,477	12,663	814	1,105	58,898	58,819
Mississippi	6,745	6,065	5,508	557	680	43,029	42,939
Louisiana	26,912	19,774	11,259	8,515	7,138	63,156	62,911
Texas	51,953	32,927	26,192	6,735	19,026	48,716	48,202
Oklahoma	1,360	1,164	1,015	149	196	358	333
Arkansas	14,588	13,275	12,423	852	1,313	21,804	21,733
Western division	268,510	147,736	104,046	43,690	120,774	61,882	10,363
Montana	17,688	8,655	5,585	3,070	9,033	2,648	937
Wyoming	7,816	5,001	3,408	1,593	2,815	518	384
Colorado	39,244	24,700	19,142	5,558	14,544	3,708	2,444
New Mexico	15,493	13,483	12,327	1,156	2,010	1,359	801
Arizona	6,298	2,625	1,705	920	3,673	2,024	1,101
Utah	14,667	8,335	4,066	4,269	6,332	868	296
Nevada	3,207	1,540	922	618	1,667	2,243	85
Idaho	5,973	3,730	2,525	1,205	2,243	745	78
Washington	39,006	20,187	14,935	5,252	18,819	3,285	615
Oregon	20,438	13,011	10,516	2,495	7,427	6,104	409
California	98,680	46,469	28,915	17,554	52,211	38,380	3,213

a Persons of negro descent, Chinese, Japanese, and civilized Indians.

TABLE 4.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY GENERAL NATIVITY AND COLOR, BY STATES AND TERRITORIES: 1890—Cont'd.

TRADE AND TRANSPORTATION.

STATES AND TERRITORIES.	Total white.	NATIVE WHITE.			Foreign white.	Total colored. (a)	Persons of negro descent.
		Total.	Native parents.	Foreign parents.			
The United States.....	3,169,624	2,457,066	1,722,462	734,604	712,558	156,498	145,717
North Atlantic division.....	1,301,982	984,768	642,233	342,535	317,214	14,797	14,488
Maine.....	37,219	32,935	29,393	3,542	4,284	72	70
New Hampshire.....	19,747	16,175	14,253	1,922	3,572	24	24
Vermont.....	14,518	12,323	9,844	2,479	2,495	33	33
Massachusetts.....	195,013	148,626	105,204	43,422	46,387	1,500	1,436
Rhode Island.....	26,811	20,405	14,247	6,158	6,406	561	549
Connecticut.....	48,728	38,517	27,431	11,086	10,211	655	641
New York.....	523,108	365,116	194,735	170,381	157,992	4,456	4,284
New Jersey.....	117,915	90,513	61,576	28,937	27,402	2,157	2,136
Pennsylvania.....	318,923	260,158	185,550	74,608	58,765	5,339	5,315
South Atlantic division.....	241,780	218,340	187,945	30,395	23,440	66,971	66,931
Delaware.....	8,393	7,514	6,466	1,048	879	652	652
Maryland.....	61,291	52,518	37,767	14,751	8,773	7,688	7,682
District of Columbia.....	23,921	21,285	17,351	3,934	2,636	4,970	4,969
Virginia.....	42,610	39,926	37,472	2,454	2,684	15,916	15,907
West Virginia.....	20,884	18,979	16,327	2,652	1,905	2,089	2,088
North Carolina.....	21,130	20,507	19,994	513	623	7,669	7,668
South Carolina.....	14,684	13,262	11,884	1,378	1,422	7,051	7,043
Georgia.....	37,997	35,299	32,653	2,646	2,698	16,773	16,764
Florida.....	10,870	9,050	8,031	1,019	1,820	4,163	4,158
North Central division.....	1,136,828	869,239	591,405	277,834	267,589	14,311	14,122
Ohio.....	192,510	159,342	106,677	52,665	33,168	3,068	3,066
Indiana.....	90,892	80,576	64,089	16,487	10,316	1,452	1,448
Illinois.....	244,634	170,910	104,907	66,003	73,724	2,070	2,035
Michigan.....	102,767	69,717	44,738	24,979	33,050	509	454
Wisconsin.....	68,512	45,524	20,310	25,214	22,988	108	75
Minnesota.....	72,225	45,569	26,789	18,780	26,656	231	221
Iowa.....	87,806	70,403	52,050	18,353	17,403	291	290
Missouri.....	135,119	111,435	78,669	32,766	23,634	4,927	4,905
North Dakota.....	6,668	3,767	2,374	1,393	2,901	11	10
South Dakota.....	12,712	9,258	6,325	2,933	3,454	138	122
Nebraska.....	62,548	50,318	40,592	9,726	12,230	335	327
Kansas.....	60,435	52,420	43,885	8,535	8,015	1,171	1,169
South Central division.....	266,188	229,719	191,009	38,710	36,469	49,180	49,019
Kentucky.....	53,696	47,655	37,487	10,168	6,041	7,449	7,448
Tennessee.....	42,828	39,530	36,227	3,303	3,298	11,078	11,076
Alabama.....	27,011	24,809	22,509	2,300	2,202	9,288	9,285
Mississippi.....	16,629	14,913	13,143	1,770	1,716	5,788	5,745
Louisiana.....	34,385	26,674	15,450	11,224	7,711	6,201	6,173
Texas.....	70,548	57,059	48,774	8,285	13,489	6,485	6,452
Oklahoma.....	2,046	1,851	1,643	208	195	29	29
Arkansas.....	19,045	17,228	15,776	1,452	1,817	2,812	2,811
Western division.....	222,846	155,000	109,870	45,130	67,846	11,289	1,157
Montana.....	11,090	7,271	5,183	2,088	3,819	353	46
Wyoming.....	5,199	3,637	2,608	1,029	1,562	59	34
Colorado.....	40,092	31,088	24,838	6,250	9,004	446	411
New Mexico.....	4,009	3,898	3,202	696	1,011	70	40
Arizona.....	3,556	2,339	1,759	580	1,217	182	13
Utah.....	10,899	7,496	4,287	3,209	3,403	189	15
Nevada.....	2,935	1,912	1,224	688	1,023	373	18
Idaho.....	4,147	2,809	2,020	789	1,338	211	8
Washington.....	28,855	19,967	15,427	4,540	8,888	411	69
Oregon.....	18,262	13,861	11,137	2,724	4,401	1,111	43
California.....	92,902	60,722	38,185	22,537	32,180	7,884	460

a Persons of negro descent, Chinese, Japanese, and civilized Indians.

TABLE 4.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY GENERAL NATIVITY AND COLOR, BY STATES AND TERRITORIES: 1890—Cont'd.

MANUFACTURING AND MECHANICAL INDUSTRIES.

STATES AND TERRITORIES.	Total white.	NATIVE WHITE.			Foreign white.	Total colored. (a)	Persons of negro descent.
		Total.	Native parents.	Foreign parents.			
The United States.....	4,906,269	3,309,151	2,067,135	1,242,016	1,597,118	185,024	172,970
North Atlantic division.....	2,551,261	1,651,315	947,205	704,110	899,946	14,489	14,105
Maine.....	79,871	60,569	51,977	8,592	19,302	183	66
New Hampshire.....	71,310	44,899	35,630	9,269	26,411	98	95
Vermont.....	29,663	22,422	16,106	6,316	7,241	39	37
Massachusetts.....	474,065	280,728	154,682	126,046	193,337	1,581	1,558
Rhode Island.....	81,037	44,975	20,835	24,140	36,062	511	492
Connecticut.....	145,648	93,947	51,743	42,204	51,701	749	730
New York.....	824,764	491,845	220,793	271,052	332,919	3,452	3,294
New Jersey.....	221,745	143,112	79,666	63,446	78,633	2,147	2,127
Pennsylvania.....	623,158	468,818	315,773	153,045	154,340	5,729	5,706
South Atlantic division.....	325,262	235,162	238,269	46,893	40,100	85,552	85,429
Delaware.....	17,236	14,284	10,660	3,624	2,932	868	868
Maryland.....	96,485	76,523	50,157	26,366	19,962	5,530	5,527
District of Columbia.....	18,983	15,903	11,503	4,400	3,080	4,328	4,324
Virginia.....	54,236	51,424	48,527	2,897	2,812	23,378	23,326
West Virginia.....	29,875	27,005	22,263	4,742	2,870	967	967
North Carolina.....	36,168	35,607	35,075	532	561	14,477	14,465
South Carolina.....	18,931	17,973	16,961	1,012	958	12,206	12,188
Georgia.....	40,465	38,111	36,156	1,955	2,354	18,529	18,523
Florida.....	12,883	8,332	6,967	1,365	4,551	5,269	5,241
North Central division.....	1,518,006	993,175	602,798	390,377	524,831	15,092	14,787
Ohio.....	327,109	245,320	148,348	96,972	81,789	3,378	3,866
Indiana.....	137,653	115,826	86,693	29,133	21,827	1,855	1,845
Illinois.....	317,161	170,315	90,107	80,208	146,846	1,979	1,962
Michigan.....	161,255	92,836	56,186	36,650	68,419	843	687
Wisconsin.....	129,124	67,603	23,164	44,441	61,519	171	133
Minnesota.....	83,596	37,748	18,546	19,202	45,848	152	136
Iowa.....	89,310	64,489	44,052	20,437	24,821	344	344
Missouri.....	148,979	108,064	64,433	43,631	40,915	3,928	3,920
North Dakota.....	4,792	2,003	1,154	849	2,789	5	5
South Dakota.....	10,471	6,754	4,583	2,171	3,717	27	18
Nebraska.....	55,336	39,388	30,523	8,865	15,048	456	433
Kansas.....	53,220	42,827	35,009	7,818	10,393	1,454	1,438
South Central division.....	265,775	225,021	177,847	47,174	40,754	57,545	57,435
Kentucky.....	75,321	62,854	41,639	21,215	12,467	7,354	7,351
Tennessee.....	46,005	43,013	39,578	3,435	3,592	11,567	11,546
Alabama.....	28,152	25,659	23,612	2,047	2,493	10,867	10,856
Mississippi.....	13,110	11,850	10,533	1,317	1,200	6,527	6,487
Louisiana.....	30,418	23,374	12,312	11,062	7,044	11,246	11,223
Texas.....	51,806	40,007	33,448	6,559	11,799	6,259	6,249
Oklahoma.....	2,122	1,840	1,633	207	282	46	44
Arkansas.....	18,241	16,424	15,092	1,332	1,817	3,679	3,679
* Western division.....	245,965	154,478	101,016	53,462	91,487	12,346	1,214
Montana.....	11,658	6,268	4,093	2,175	5,390	106	58
Wyoming.....	4,613	3,211	2,287	924	1,402	21	20
Colorado.....	38,919	27,053	20,654	6,399	11,866	461	456
New Mexico.....	3,943	3,016	2,458	558	927	54	27
Arizona.....	2,690	1,513	1,057	456	1,177	43	16
Utah.....	13,326	6,909	3,625	3,284	6,417	26	16
Nevada.....	2,875	1,687	1,040	647	1,188	186	7
Idaho.....	3,973	2,536	1,785	751	1,437	14	1
Washington.....	36,571	22,413	16,863	5,550	14,158	411	102
Oregon.....	21,871	14,843	11,814	3,029	7,028	1,089	47
California.....	105,526	65,029	35,340	29,689	40,497	9,935	464

a Persons of negro descent, Chinese, Japanese, and civilized Indians.

STATISTICS OF POPULATION.

TABLE 5.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY SEX, GENERAL NATIVITY, AND COLOR, BY STATES AND TERRITORIES: 1890.**ALL OCCUPATIONS.**

STATES AND TERRITORIES.	TOTAL WHITE.		TOTAL NATIVE WHITE.		NATIVE WHITE—NATIVE PARENTS.		NATIVE WHITE—FOREIGN PARENTS.		FOREIGN WHITE.		TOTAL COLORED. (a)		PERSONS OF NEGRO DESCENT.	
	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.
The United States.	16,603,147	2,939,041	12,273,541	2,163,890	9,535,627	1,359,196	2,737,714	804,694	4,329,606	775,151	2,217,943	975,530	2,101,379	971,785
North Atlantic division.	5,443,905	1,383,804	3,709,454	919,135	2,615,284	495,278	1,094,170	423,857	1,734,451	464,669	99,136	44,615	91,826	44,222
Maine	211,343	44,849	178,446	34,849	160,480	29,367	17,966	5,482	32,897	10,000	690	214	409	145
New Hampshire	127,539	33,749	97,381	23,320	86,945	18,173	10,436	5,147	30,158	13,429	308	109	242	107
Vermont	108,433	19,856	87,940	16,959	71,467	12,070	16,473	4,889	20,493	2,897	371	111	322	109
Massachusetts	710,437	259,818	440,032	149,163	304,050	74,838	135,982	74,325	270,405	110,655	8,729	3,460	7,593	3,435
Rhode Island	110,689	41,328	66,456	23,180	44,015	9,657	22,441	13,523	44,233	18,148	2,475	1,386	2,338	1,361
Connecticut	241,231	69,383	158,923	46,073	113,356	22,359	45,567	23,714	82,308	23,310	4,403	1,997	4,064	1,964
New York	1,895,264	500,158	1,200,816	316,240	731,846	137,406	468,970	178,834	694,448	183,918	26,521	13,782	23,275	13,661
New Jersey	442,656	103,500	293,601	69,064	204,445	35,043	89,156	34,021	149,055	34,436	16,811	7,771	16,146	7,738
Pennsylvania	1,596,313	308,163	1,185,859	240,287	898,680	156,365	287,179	83,922	410,454	67,876	38,830	15,785	37,537	15,702
South Atlantic division.	1,527,566	244,802	1,430,672	227,881	1,336,905	203,559	93,767	24,322	96,894	16,921	904,221	441,467	902,893	441,247
Delaware	44,564	7,333	38,270	6,205	33,115	4,643	5,155	1,562	6,294	1,128	9,374	3,015	9,335	3,015
Maryland	245,141	52,086	203,160	42,633	157,102	29,000	46,058	13,633	41,981	9,453	63,374	32,666	63,172	32,639
Dist. of Columbia	47,661	13,354	39,812	10,959	31,667	8,087	8,145	2,872	7,849	2,395	21,331	18,773	21,239	18,768
Virginia	275,918	34,569	266,487	33,809	259,202	32,516	7,285	1,293	9,431	760	169,555	71,797	169,350	71,745
West Virginia	190,583	19,086	180,913	18,258	168,639	15,977	12,274	2,281	9,670	828	11,498	2,621	11,480	2,621
North Carolina	273,371	46,906	271,304	46,741	260,215	46,363	2,089	378	2,067	165	148,800	68,286	148,373	68,217
South Carolina	124,623	26,574	121,313	26,105	118,095	25,415	3,218	690	3,310	409	186,800	102,857	186,723	102,827
Georgia	261,763	37,567	254,952	36,883	249,179	35,810	5,773	1,073	6,811	684	247,027	122,356	246,920	122,345
Florida	63,942	7,327	54,461	6,288	50,691	5,748	3,770	540	9,481	1,039	46,402	19,096	46,301	19,070
North Central division.	6,519,550	971,779	4,583,299	734,427	3,346,710	435,769	1,236,589	298,658	1,936,251	237,852	141,599	40,910	135,265	40,492
Ohio	1,060,278	176,381	847,487	149,187	629,264	91,213	218,223	57,974	212,791	27,194	28,331	7,796	28,087	7,789
Indiana	624,346	80,658	552,965	73,670	466,494	56,087	86,471	17,583	71,381	6,988	14,810	4,244	14,648	4,210
Illinois	1,133,225	195,588	738,145	133,406	508,121	72,294	280,024	61,112	395,080	62,182	20,024	4,722	19,271	4,712
Michigan	656,766	94,433	400,256	65,629	274,109	37,009	126,147	28,620	256,510	28,804	6,861	1,515	5,065	1,329
Wisconsin	493,343	80,761	251,840	56,172	105,419	16,335	146,421	39,837	241,503	24,589	1,886	300	854	206
Minnesota	401,336	65,217	174,090	35,344	89,499	13,107	84,591	22,237	227,246	29,873	2,125	408	1,719	333
Iowa	547,720	79,687	391,558	62,931	285,810	39,537	105,748	23,394	156,162	16,756	3,698	730	3,615	730
Missouri	727,179	96,106	606,923	81,322	490,797	53,477	116,126	27,845	120,256	14,784	44,375	16,719	43,946	16,709
North Dakota	59,725	7,787	21,391	3,103	12,399	1,329	8,992	1,774	38,334	4,684	231	28	146	23
South Dakota	102,027	11,405	57,452	7,467	38,044	4,285	19,411	3,182	44,575	3,938	608	53	284	43
Nebraska	320,850	41,661	221,302	30,242	175,224	21,930	46,078	8,312	99,548	11,419	4,566	983	3,740	959
Kansas	302,755	42,095	319,890	35,954	271,533	29,166	48,357	6,788	72,865	6,141	14,084	3,412	13,890	3,399
South Central division.	2,011,934	219,124	1,847,182	201,019	1,713,885	174,470	133,297	26,540	164,752	18,105	961,111	443,645	958,742	443,202
Kentucky	430,482	52,120	401,447	48,430	364,277	37,576	37,170	10,854	29,035	3,690	76,464	31,258	76,416	31,250
Tennessee	352,023	35,873	341,014	34,808	331,505	33,099	9,509	1,709	11,009	1,065	121,148	44,709	121,038	44,696
Alabama	219,149	28,844	210,906	28,220	204,451	27,259	6,455	961	8,243	624	192,478	101,131	192,337	101,069
Mississippi	138,666	19,289	133,881	18,866	128,864	18,129	5,017	737	4,785	423	199,265	105,519	198,542	105,285
Louisiana	154,583	24,741	130,080	20,752	100,780	14,137	29,300	6,615	24,503	3,989	159,710	84,040	159,186	83,971
Texas	486,099	39,294	408,818	31,642	371,004	26,734	37,814	4,908	77,281	7,652	124,094	46,721	123,401	46,684
Oklahoma	18,861	932	17,240	860	15,826	771	1,414	89	1,621	72	988	125	958	125
Arkansas	212,071	18,031	203,796	17,441	197,178	16,765	6,618	676	8,275	590	86,964	30,142	86,864	30,112
Western division	1,100,192	119,532	702,934	81,428	523,043	50,120	179,891	31,308	397,258	38,104	111,876	4,893	12,553	2,622
Montana	64,059	4,469	35,829	2,751	25,345	1,733	10,484	1,018	28,230	1,718	3,528	167	972	139
Wyoming	27,711	1,816	18,538	1,105	13,599	774	4,939	421	9,173	621	1,025	78	563	75
Colorado	168,610	18,327	118,403	13,047	95,124	9,624	23,279	3,423	50,207	5,280	4,186	820	2,791	792
New Mexico	46,150	3,594	39,548	3,143	35,921	2,803	3,627	340	6,602	451	4,067	340	888	156
Arizona	22,162	1,472	12,909	627	9,645	406	3,264	221	9,253	845	2,685	97	1,091	71
Utah	58,646	7,004	34,387	4,258	18,374	1,667	16,013	2,591	24,259	2,746	1,179	72	298	51
Nevada	17,822	1,395	9,629	950	6,414	475	3,215	475	8,193	445	3,769	429	130	22
Idaho	31,368	1,838	21,306	1,370	15,743	917	5,563	453	10,062	468	1,910	56	81	23
Washington	148,462	10,835	92,103	7,178	72,030	5,230	20,073	1,948	56,359	3,657	5,119	280	903	152
Oregon	106,261	10,589	77,422	8,171	65,448	6,262	11,974	1,909	28,839	2,418	9,727	204	536	99
California	408,941	58,193	242,860	38,738	165,400	20,229	77,460	18,509	166,081	19,455	74,681	2,350	4,300	1,042

a Persons of negro descent, Chinese, Japanese, and civilized Indians.

TABLE 5.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY SEX, GENERAL NATIVITY, AND COLOR, BY STATES AND TERRITORIES: 1890—Cont'd.**AGRICULTURE, FISHERIES, AND MINING.**

STATES AND TERRITORIES.	TOTAL WHITE.		TOTAL NATIVE WHITE.		NATIVE WHITE—NATIVE PARENTS.		NATIVE WHITE—FOREIGN PARENTS.		FOREIGN WHITE.		TOTAL COLORED. (a)		PERSONS OF NEGRO DESCENT.	
	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.
The United States.	6,972,005	250,920	5,699,725	217,299	4,918,722	203,891	781,003	13,408	1,272,280	33,621	1,361,808	428,603	1,329,594	427,809
North Atlantic division.	1,230,823	20,751	987,618	17,081	835,298	15,064	152,320	2,017	243,205	3,670	14,279	97	13,826	90
Maine	84,642	1,462	77,538	1,353	71,649	1,288	5,889	65	7,104	109	189	3	104	2
New Hampshire.....	42,298	622	38,128	503	36,472	582	1,656	11	4,170	29	62	.....	60	.....
Vermont.....	55,414	647	47,562	558	40,575	512	6,987	46	7,852	89	120	2	112	1
Massachusetts.....	79,507	933	54,804	801	47,700	748	7,104	53	24,703	132	656	4	601	4
Rhode Island.....	12,136	181	9,230	152	8,507	144	723	8	2,906	29	286	3	270	.....
Connecticut.....	46,995	764	36,036	637	32,088	600	3,948	37	10,959	127	914	3	879	1
New York.....	398,411	8,577	323,539	6,541	260,046	5,472	63,493	1,069	74,872	2,036	3,118	26	3,031	25
New Jersey.....	69,291	1,382	55,839	1,084	49,188	901	6,651	93	13,452	298	4,186	30	4,166	29
Pennsylvania.....	442,129	6,183	344,942	5,362	289,073	4,727	55,869	635	97,187	821	4,748	26	4,603	26
South Atlantic division.	880,947	67,332	863,932	66,523	847,315	65,838	16,617	685	17,015	809	585,885	180,154	585,362	180,079
Delaware.....	14,238	272	13,577	249	13,061	237	516	12	661	23	4,157	35	4,157	35
Maryland.....	73,151	1,986	66,917	1,549	60,546	1,373	6,371	176	6,234	437	29,518	741	29,516	741
Dist. of Columbia.....	1,275	42	961	22	794	14	107	8	314	20	554	15	553	15
Virginia.....	161,190	6,561	158,939	6,494	157,411	6,439	1,528	55	2,251	67	93,819	10,175	93,746	10,167
West Virginia.....	121,841	3,206	118,448	3,093	114,250	2,981	4,198	113	3,393	113	4,790	50	4,790	50
North Carolina.....	211,842	21,806	211,228	21,780	210,283	21,672	945	108	614	26	106,860	33,842	106,403	33,794
South Carolina.....	89,627	14,856	89,055	14,811	88,251	14,712	804	99	573	45	149,940	73,594	149,915	73,581
Georgia.....	175,073	16,452	174,310	16,415	173,217	16,325	1,093	90	763	37	172,528	54,075	172,500	54,070
Florida.....	32,710	2,151	30,497	2,110	29,502	2,085	995	25	2,213	41	23,710	7,627	23,692	7,626
North Central division.	3,119,643	79,414	2,306,475	55,225	1,769,349	47,311	517,126	7,914	813,168	24,189	39,190	856	36,706	774
Ohio.....	412,576	10,107	363,114	8,292	299,820	7,042	63,294	1,250	49,462	1,815	6,230	106	6,201	106
Indiana.....	318,905	8,303	292,857	7,115	257,196	6,398	35,661	717	28,048	1,188	3,316	45	3,273	37
Illinois.....	439,222	12,795	330,071	9,241	258,509	8,101	80,562	1,140	100,131	3,554	4,337	134	4,323	134
Michigan.....	300,887	6,043	194,700	3,772	140,158	3,037	54,542	735	105,387	2,271	2,311	60	1,458	44
Wisconsin.....	235,363	5,900	120,095	2,091	40,150	1,218	70,936	873	115,268	3,809	805	31	168	4
Minnesota.....	191,270	3,819	73,953	1,093	32,093	571	41,860	522	117,417	2,726	226	7	72	2
Iowa.....	321,315	8,063	224,628	4,948	162,483	4,103	62,145	845	96,687	3,135	981	11	973	11
Missouri.....	376,474	12,098	343,291	10,566	306,801	9,887	36,310	679	33,273	1,532	15,771	322	15,757	322
North Dakota.....	43,088	823	13,192	256	7,262	147	5,930	109	29,896	567	43	1	35	.....
South Dakota.....	69,272	1,405	35,606	661	22,853	506	12,753	155	33,666	744	157	5	83	1
Nebraska.....	166,322	3,437	108,580	2,133	84,555	1,794	24,025	339	57,742	1,304	795	20	242	3
Kansas.....	245,649	6,601	197,478	5,057	168,370	4,507	29,108	550	48,171	1,544	4,218	114	4,171	110
South Central division.	1,330,488	76,803	1,272,346	73,939	1,233,585	71,830	38,761	2,160	58,142	2,864	692,794	247,119	691,628	246,839
Kentucky.....	275,745	10,865	269,792	10,609	262,325	10,422	7,467	187	5,953	256	38,467	1,008	38,456	1,008
Tennessee.....	240,718	11,305	238,281	11,230	235,826	11,122	2,455	108	2,437	75	72,352	12,511	72,316	12,508
Alabama.....	153,428	14,830	150,819	14,761	149,097	14,649	1,723	112	2,609	69	146,433	66,101	146,361	66,124
Mississippi.....	102,097	11,261	100,830	11,187	99,225	11,023	1,605	164	1,267	74	168,587	78,104	167,997	77,924
Louisiana.....	73,191	6,001	68,041	5,752	64,777	5,558	3,261	194	5,150	249	112,075	49,463	111,820	49,424
Texas.....	312,157	13,406	275,820	11,414	257,554	10,213	18,266	1,201	36,337	1,992	85,983	20,772	85,824	20,763
Oklahoma.....	12,980	294	12,038	270	11,195	252	843	18	942	24	637	17	635	17
Arkansas.....	160,172	8,841	156,725	8,716	153,586	8,591	3,139	125	3,447	125	68,260	19,083	68,210	19,071
Western division.....	410,104	6,620	269,254	4,531	213,175	3,848	56,179	683	140,750	2,089	20,660	377	2,072	27
Montana.....	25,036	193	13,988	114	10,330	87	3,658	27	11,048	79	548	3	41	.....
Wyoming.....	10,685	73	6,884	40	5,289	32	1,595	8	3,801	33	443	.....	141	.....
Colorado.....	58,260	601	39,783	544	32,743	467	7,040	77	18,477	147	288	1	180	4
New Mexico.....	23,367	340	20,579	323	19,219	310	1,360	13	2,788	17	2,823	81	163	3
Arizona.....	9,906	96	6,144	59	4,780	55	1,364	4	3,762	37	521	5	29	.....
Utah.....	23,350	572	13,570	229	6,533	149	7,037	80	9,780	343	160	1	21	.....
Nevada.....	9,107	73	4,553	41	3,092	34	1,461	7	4,554	32	1,297	59	41	1
Idaho.....	17,625	197	12,376	130	9,363	112	3,013	18	5,249	67	987	5	16	1
Washington.....	46,091	585	29,630	414	24,209	347	5,421	67	16,461	171	1,200	67	250	2
Oregon.....	48,613	890	37,832	723	32,630	625	4,702	88	11,281	167	1,467	10	106	2
California.....	138,064	2,910	84,515	1,914	64,987	1,620	19,528	294	53,549	996	19,926	142	1,084	14

a Persons of negro descent, Chinese, Japanese, and civilized Indians.

STATISTICS OF POPULATION.

TABLE 5.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY SEX, GENERAL NATIVITY, AND COLOR, BY STATES AND TERRITORIES: 1890—Cont'd.

PROFESSIONAL SERVICE.

STATES AND TERRITORIES.	TOTAL WHITE.		TOTAL NATIVE WHITE.		NATIVE WHITE—NATIVE PARENTS.		NATIVE WHITE—FOREIGN PARENTS.		FOREIGN WHITE.		TOTAL COLORED. (a)		PERSONS OF NEGRO DESCENT.	
	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.
The United States.	606,390	302,796	511,900	283,173	428,803	211,982	83,097	71,191	94,490	19,623	26,256	8,891	25,170	8,824
North Atlantic division.	191,002	106,155	155,797	98,628	123,821	73,286	31,976	25,342	35,205	7,527	1,795	516	1,719	500
Maine	5,905	6,354	5,512	6,195	5,183	5,718	329	477	483	159	12	3	8	2
New Hampshire ..	3,524	3,302	3,216	3,183	3,001	2,993	215	190	308	119	5	.....	5	.....
Vermont	3,025	3,246	2,734	3,037	2,501	2,646	233	451	291	149	4	1	3	.....
Massachusetts	26,077	16,940	21,768	15,703	18,219	12,389	3,549	3,319	4,309	1,232	171	59	182	57
Rhode Island	3,408	1,081	2,865	1,826	2,423	1,452	442	374	543	155	39	18	33	18
Connecticut	7,444	4,965	6,476	4,706	5,522	3,700	944	997	968	259	65	11	61	10
New York	75,872	38,752	57,283	35,085	41,160	22,081	16,123	12,054	18,589	3,717	612	140	571	135
New Jersey	15,312	6,680	12,189	6,143	9,626	4,442	2,563	1,701	3,123	537	288	83	287	82
Pennsylvania	50,345	23,935	43,754	22,735	36,176	16,956	7,578	5,779	6,591	1,200	539	201	584	196
South Atlantic division.	57,762	21,702	54,028	20,937	51,403	18,790	3,625	2,167	3,734	745	9,029	3,808	9,007	3,865
Delaware	1,405	676	1,319	651	1,204	504	115	147	83	25	100	32	97	32
Maryland	9,503	4,158	8,362	3,909	6,902	3,074	1,400	835	1,200	249	642	274	640	274
Dist. of Columbia ..	5,297	1,284	4,063	1,156	3,993	880	610	276	694	128	392	335	390	335
Virginia	10,307	4,816	9,808	4,732	9,512	4,538	296	194	499	84	1,058	914	1,054	912
West Virginia	6,230	2,202	6,025	2,169	5,678	1,891	347	260	205	42	167	63	166	63
North Carolina	7,346	2,760	7,194	2,731	7,062	2,664	132	67	152	29	1,025	565	1,019	565
South Carolina	4,426	1,717	4,273	1,688	4,080	1,576	193	112	153	29	1,544	506	1,543	505
Georgia	9,782	3,106	9,444	3,051	9,144	2,870	300	181	338	55	2,125	956	2,122	956
Florida	3,467	983	3,660	879	2,828	793	232	86	407	104	776	223	776	223
North Central division.	233,587	133,612	193,511	125,334	157,778	88,847	35,733	36,487	40,076	8,278	3,143	1,005	3,035	977
Ohio	41,155	19,883	36,577	18,929	30,295	14,471	6,232	4,458	4,578	954	628	247	617	246
Indiana	23,770	10,275	22,060	9,923	19,587	8,260	2,473	1,663	1,710	352	334	140	230	120
Illinois	40,682	21,830	32,018	20,400	25,326	13,982	6,602	6,418	8,664	1,420	494	116	486	116
Michigan	20,291	13,000	15,048	11,633	11,589	7,813	3,459	3,820	5,243	1,367	154	45	115	39
Wisconsin	13,506	10,721	9,406	10,602	5,718	4,704	3,688	5,298	4,100	719	39	12	27	11
Minnesota	13,999	8,693	9,679	7,809	6,903	4,394	2,776	3,415	4,320	884	61	14	57	13
Iowa	18,881	18,780	16,080	18,091	13,161	12,596	2,919	5,495	2,801	698	81	11	78	11
Missouri	27,061	11,104	23,469	10,515	20,177	8,382	3,292	2,163	3,592	619	903	338	897	337
North Dakota	1,937	1,112	1,218	825	893	490	325	335	719	287	11	1	7	.....
South Dakota	3,603	2,379	2,861	2,188	2,262	1,498	599	690	742	191	10	3	1	2
Nebraska	12,223	7,236	10,245	6,827	8,717	5,411	1,528	1,416	1,978	409	71	9	63	7
Kansas	16,479	8,530	14,850	8,162	13,150	6,846	1,700	1,316	1,629	368	361	69	357	60
South Central division.	75,782	23,905	70,771	22,784	66,376	20,276	4,395	2,568	5,011	1,121	11,132	3,444	11,112	3,437
Kentucky	14,724	5,595	13,881	5,350	12,904	4,675	977	675	843	245	1,411	420	1,406	420
Tennessee	13,244	3,875	12,775	3,790	12,364	3,516	411	274	469	85	1,739	592	1,736	592
Alabama	7,708	2,282	7,361	2,240	7,091	2,089	270	151	347	42	1,472	490	1,471	490
Mississippi	5,613	2,500	5,432	2,470	5,217	2,344	215	126	181	30	1,974	775	1,970	775
Louisiana	5,944	2,473	5,005	2,212	4,036	1,525	969	687	939	261	1,252	357	1,251	355
Texas	20,191	5,332	18,292	4,941	17,099	4,458	1,193	483	1,899	391	2,035	565	2,031	564
Oklahoma	829	171	772	165	709	150	63	15	48	6	23	3	22	3
Arkansas	7,538	1,677	7,253	1,616	6,956	1,519	297	97	285	61	1,226	242	1,225	238
Western division	48,257	17,422	37,793	15,470	30,425	10,783	7,308	4,687	10,464	1,952	1,157	58	297	45
Montana	2,201	603	1,760	524	1,401	399	359	125	501	78	33	4	25	4
Wyoming	892	249	727	233	578	171	149	62	165	16	61	1	58	1
Colorado	7,372	2,859	6,146	2,136	5,184	1,720	962	416	1,226	223	86	13	75	13
New Mexico	1,368	324	1,113	279	971	237	142	42	255	45	18	2	10	.....
Arizona	921	167	705	151	574	121	131	39	216	16	7	.....	3	.....
Utah	2,128	703	1,500	606	1,051	330	449	276	628	102	7	.....	1	.....
Nevada	690	330	551	295	424	153	127	142	139	35	40	.....	.....	.....
Idaho	1,000	291	833	262	665	190	168	72	167	29	4	.....	.....	.....
Washington	6,574	1,615	5,249	1,421	4,372	1,107	877	314	1,325	194	24	1	16	1
Oregon	4,863	1,913	4,059	1,764	3,557	1,421	502	343	804	149	144	6	23	5
California	20,188	8,864	15,150	7,789	11,648	4,934	3,502	2,865	5,038	1,065	733	81	86	21

(a) Persons of negro descent, Chinese, Japanese, and civilized Indians.

TABLE 5.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY SEX, GENERAL NATIVITY, AND COLOR, BY STATES AND TERRITORIES: 1890—Cont'd.**DOMESTIC AND PERSONAL SERVICE.**

STATES AND TERRITORIES.	TOTAL WHITE.		TOTAL NATIVE WHITE.		NATIVE WHITE—NATIVE PARENTS.		NATIVE WHITE—FOREIGN PARENTS.		FOREIGN WHITE.		TOTAL COLORED. (a)		PERSONS OF NEGRO DESCENT.	
	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.
The United States.	2,174,733	1,159,451	1,259,868	699,249	891,132	450,896	368,736	248,353	914,865	460,202	518,146	508,247	457,091	505,989
North Atlantic division.	889,452	536,283	463,809	269,573	303,876	169,779	159,933	99,794	425,643	266,710	57,269	40,509	51,154	40,266
Maine.....	26,602	14,047	18,670	10,523	15,805	8,834	2,865	1,689	7,932	3,524	306	138	174	128
New Hampshire....	14,286	9,199	8,279	6,228	6,839	5,348	1,440	880	6,007	2,971	142	84	81	84
Vermont.....	11,624	10,152	7,963	8,240	5,573	5,780	2,390	2,460	3,661	1,912	181	102	143	102
Massachusetts.....	94,470	83,250	37,173	29,587	22,376	17,570	14,797	12,017	57,297	53,663	5,285	2,933	4,296	2,914
Rhode Island.....	16,495	9,968	6,680	3,503	3,861	2,203	2,819	1,300	9,815	6,465	1,252	1,191	1,161	1,169
Connecticut.....	32,971	23,099	14,291	10,386	8,314	6,298	5,977	4,088	18,680	12,713	2,195	1,808	1,925	1,781
New York.....	311,565	214,373	142,891	94,806	75,700	48,365	67,191	46,441	168,674	119,567	15,987	12,512	13,151	12,445
New Jersey.....	73,004	40,827	34,532	19,253	22,305	11,694	12,227	7,559	38,472	21,574	8,330	7,361	7,718	7,339
Pennsylvania.....	308,435	131,368	193,330	87,047	143,103	63,687	50,227	23,360	115,105	44,321	23,591	14,382	22,505	14,304
South Atlantic division.	109,578	68,010	90,604	59,007	78,436	53,468	12,168	5,539	18,969	9,003	172,600	241,629	171,952	241,515
Delaware.....	6,646	3,031	4,694	2,187	3,850	1,776	844	411	1,952	844	3,667	2,878	3,631	2,878
Maryland.....	33,243	17,411	23,694	12,381	16,070	9,313	6,724	3,068	2,549	5,030	21,212	30,435	21,022	30,409
Dist. of Columbia..	6,376	3,837	4,518	2,323	3,487	1,732	1,031	591	1,858	1,514	12,767	16,743	12,682	16,739
Virginia.....	19,044	11,723	17,535	11,438	16,604	11,215	931	223	1,509	285	39,501	55,991	39,434	55,949
West Virginia.....	15,895	9,536	14,364	9,097	12,918	8,308	1,446	789	1,531	439	3,532	2,461	3,516	2,461
North Carolina.....	8,471	10,754	8,303	10,695	8,189	10,639	114	56	168	59	20,616	31,423	20,584	31,402
South Carolina.....	3,751	3,205	3,240	3,007	3,142	2,904	207	103	402	198	18,584	26,232	18,555	26,220
Georgia.....	10,037	6,418	9,106	6,099	8,693	5,931	413	168	931	319	39,358	65,039	39,297	65,033
Florida.....	6,110	2,095	5,041	1,780	4,583	1,650	458	130	1,069	315	13,363	10,427	13,231	10,424
North Central division.	833,303	436,936	487,012	287,755	341,283	163,708	145,729	124,047	346,291	149,181	71,935	36,977	68,602	36,754
Ohio.....	158,379	74,040	106,831	58,269	76,556	37,268	30,275	21,001	51,548	16,671	15,005	6,965	14,814	6,900
Indiana.....	80,024	35,182	66,956	31,322	56,313	24,045	10,643	7,277	13,068	3,860	8,052	3,860	7,950	3,849
Illinois.....	163,616	88,873	79,243	50,353	51,738	27,745	27,505	22,008	84,873	38,520	11,545	4,071	10,865	4,062
Michigan.....	103,661	44,095	51,324	26,855	33,434	14,163	17,890	12,692	52,837	17,240	3,254	1,200	2,495	1,102
Wisconsin.....	72,393	38,585	29,113	24,176	12,139	5,342	16,974	18,834	43,280	14,400	803	217	461	161
Minnesota.....	56,464	36,287	18,672	14,911	9,598	3,712	9,074	11,199	37,792	21,476	1,512	330	1,286	315
Iowa.....	50,879	32,344	34,253	21,597	25,224	11,678	9,029	9,919	16,626	10,747	2,037	672	1,966	672
Missouri.....	71,726	40,664	49,186	31,779	35,102	20,733	14,084	11,046	22,540	8,885	19,279	15,627	18,899	15,618
North Dakota.....	4,242	4,850	1,769	1,464	991	417	778	1,047	2,473	3,386	165	25	90	22
South Dakota.....	7,951	5,639	4,580	3,011	2,991	1,308	1,589	1,703	3,371	2,628	281	40	115	35
Nebraska.....	35,708	19,641	22,479	11,574	17,943	7,619	4,536	3,955	13,289	8,067	2,977	836	2,743	831
Kansas.....	28,200	15,736	22,606	12,444	19,254	9,078	3,352	2,766	5,594	3,292	7,025	3,084	6,898	3,077
South Central division.	130,210	61,898	100,925	52,696	82,109	45,323	18,816	7,373	29,294	9,202	158,856	185,236	157,343	185,131
Kentucky.....	29,287	17,369	24,349	15,387	19,590	12,811	4,759	2,576	4,938	1,982	22,677	28,936	22,649	28,928
Tennessee.....	17,807	11,514	16,172	11,031	15,343	10,628	829	403	1,635	483	25,673	30,345	25,624	30,336
Alabama.....	9,355	5,227	8,581	4,946	7,951	4,712	580	534	824	281	25,485	33,413	25,428	33,391
Mississippi.....	4,225	2,520	3,687	2,378	3,250	2,258	437	120	538	142	17,282	25,747	17,210	25,729
Louisiana.....	19,368	7,544	14,209	5,565	7,717	3,542	6,492	2,023	5,159	1,979	31,849	31,307	31,613	31,298
Texas.....	39,609	12,344	24,590	8,337	19,611	6,581	4,979	1,756	15,019	4,007	23,850	24,866	23,361	24,841
Oklahoma.....	1,088	272	920	244	803	212	117	32	168	28	256	102	231	102
Arkansas.....	9,480	5,108	8,467	4,808	7,844	4,579	623	229	1,013	300	11,284	10,520	11,227	10,506
Western division.....	212,186	56,324	117,518	30,218	85,428	18,618	32,090	11,000	94,668	26,106	57,986	3,896	8,040	2,323
Montana.....	15,145	2,543	7,394	1,261	4,849	736	2,545	525	7,751	1,282	2,508	140	816	121
Wyoming.....	6,725	1,091	4,398	603	3,060	348	1,338	255	2,327	468	444	74	313	71
Colorado.....	29,690	9,554	19,175	5,525	15,284	3,858	3,801	1,667	10,515	4,029	2,966	742	1,729	715
New Mexico.....	13,217	2,276	11,542	1,941	10,577	1,750	965	191	1,675	335	1,114	245	651	150
Arizona.....	5,434	864	2,350	266	1,561	144	798	122	3,075	598	1,937	87	1,034	67
Utah.....	11,234	3,433	6,454	1,881	3,423	643	3,031	1,238	4,780	1,552	803	65	248	48
Nevada.....	2,637	570	1,244	296	774	148	470	148	1,393	274	1,889	354	67	18
Idaho.....	5,090	863	3,121	609	2,144	381	977	228	1,963	274	698	47	57	21
Washington.....	33,598	5,408	17,354	2,833	12,984	1,951	4,370	882	16,244	2,575	3,094	191	481	134
Oregon.....	15,913	4,525	10,090	2,921	8,324	2,192	1,766	729	5,823	1,604	5,934	170	328	81
California.....	73,503	25,177	54,387	12,082	22,448	6,467	11,939	5,615	39,116	13,095	36,599	1,781	2,316	897

a Persons of negro descent, Chinese, Japanese, and civilized Indians.

STATISTICS OF POPULATION.

TABLE 5.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY SEX, GENERAL NATIVITY, AND COLOR, BY STATES AND TERRITORIES: 1890—Cont'd.

TRADE AND TRANSPORTATION.

STATES AND TERRITORIES.	TOTAL WHITE.		TOTAL NATIVE WHITE.		NATIVE WHITE—NATIVE PARENTS.		NATIVE WHITE—FOREIGN PARENTS.		FOREIGN WHITE.		TOTAL COLORED. (a)		PERSONS OF NEGRO DESCENT.	
	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.
The United States.	2,943,609	226,015	2,265,883	191,183	1,620,503	101,959	645,380	80,224	677,726	34,832	154,092	2,406	143,371	2,346
North Atlantic division.	1,186,731	115,251	888,624	96,144	594,579	47,654	294,045	48,490	298,107	19,107	14,571	226	14,263	225
Maine.....	34,780	2,439	30,682	2,253	27,503	1,890	3,179	363	4,098	186	70	2	68	2
New Hampshire.....	18,315	1,432	14,887	1,288	13,187	1,066	1,700	222	3,428	144	24	.....	24	.....
Vermont.....	13,801	717	11,639	684	9,328	516	2,311	168	2,162	33	88	.....	33	.....
Massachusetts.....	172,773	22,240	129,932	18,694	94,308	10,896	35,624	7,798	42,841	3,546	1,466	34	1,402	34
Rhode Island.....	24,151	2,660	18,131	2,274	13,049	1,198	5,082	1,076	6,020	386	558	3	546	3
Connecticut.....	43,809	4,919	34,217	4,300	25,274	2,157	8,943	2,143	9,592	619	648	7	634	7
New York.....	477,386	45,722	328,260	36,856	181,690	13,045	146,570	23,811	149,126	8,866	4,404	52	4,232	52
New Jersey.....	109,254	8,661	83,430	7,033	58,018	3,558	25,462	3,475	25,774	1,628	2,131	26	2,111	25
Pennsylvania.....	292,462	26,461	237,396	22,762	172,222	13,328	65,174	9,434	55,066	3,699	5,237	102	5,213	102
South Atlantic division.	225,568	16,212	204,145	14,195	177,868	10,137	26,337	4,058	21,423	2,017	65,660	1,311	65,620	1,311
Delaware.....	7,697	696	6,879	635	5,994	472	885	163	818	61	634	18	634	18
Maryland.....	55,689	5,602	47,983	4,535	35,133	2,634	12,850	1,901	7,706	1,067	7,544	144	7,538	144
Dist. of Columbia..	19,123	4,798	16,874	4,411	13,962	3,389	2,912	1,022	2,240	387	4,777	193	4,776	193
Virginia.....	40,976	1,634	38,449	1,477	36,313	1,150	2,136	318	2,527	157	15,673	243	15,664	243
West Virginia.....	20,157	727	18,306	673	15,874	453	2,432	220	1,851	54	2,082	7	2,081	7
North Carolina.....	20,606	524	20,001	508	19,521	473	480	33	605	18	7,565	104	7,564	104
South Carolina.....	14,156	528	12,824	438	11,544	340	1,280	98	1,322	90	6,868	183	6,860	183
Georgia.....	36,618	1,349	34,070	1,229	31,674	979	2,396	250	2,578	120	16,406	367	16,397	367
Florida.....	10,516	354	8,759	291	7,793	238	966	53	1,757	63	4,111	52	4,106	52
North Central division.	1,062,947	74,781	804,708	64,531	557,478	33,932	247,235	30,599	257,339	10,250	14,116	195	13,939	183
Ohio.....	177,949	14,561	140,238	13,104	99,837	6,840	46,401	6,264	31,711	1,457	3,029	39	3,027	39
Indiana.....	85,629	5,283	75,633	4,943	60,787	3,302	14,846	1,641	9,996	320	1,430	22	1,426	22
Illinois.....	225,218	19,416	155,033	15,877	98,077	6,830	56,956	9,047	70,185	3,539	2,028	42	1,994	41
Michigan.....	95,497	7,270	63,015	5,802	41,796	2,942	22,119	2,860	31,582	1,468	494	15	448	6
Wisconsin.....	63,725	4,787	41,430	4,085	19,052	1,258	22,387	2,827	22,286	702	105	3	74	1
Minnesota.....	67,969	4,266	42,148	3,421	23,136	1,653	17,012	1,768	25,811	845	226	5	210	5
Iowa.....	83,370	4,430	66,341	4,062	49,431	2,610	16,910	1,442	17,035	368	290	1	289	1
Missouri.....	127,199	7,920	104,425	7,010	74,925	3,744	29,500	3,266	22,774	910	4,884	43	4,862	43
North Dakota.....	6,494	174	3,044	123	2,294	80	1,350	43	2,850	51	11	.....	10	.....
South Dakota.....	12,224	388	8,917	341	6,090	235	2,827	106	3,407	47	137	1	121	1
Nebraska.....	59,024	3,524	47,141	3,177	38,177	2,415	8,964	762	11,883	347	331	4	323	4
Kansas.....	57,653	2,782	49,834	2,586	41,871	2,014	7,963	572	7,819	196	1,151	20	1,149	20
South Central division.	235,851	10,337	221,149	8,570	185,297	5,712	35,852	2,858	34,702	1,767	48,509	621	48,407	612
Kentucky.....	50,556	3,140	44,856	2,790	35,856	1,651	9,020	1,148	5,700	341	7,384	65	7,383	65
Tennessee.....	41,169	1,659	38,068	1,462	35,091	1,136	2,977	326	3,101	197	10,957	121	10,955	121
Alabama.....	26,234	777	24,141	668	21,060	549	2,181	119	2,093	109	9,154	134	9,151	134
Mississippi.....	16,103	526	14,494	419	12,827	316	1,667	103	1,609	107	5,714	74	5,671	74
Louisiana.....	32,418	1,967	25,369	1,305	14,857	593	10,512	712	7,049	662	6,065	136	6,040	127
Texas.....	68,790	1,758	55,603	1,456	47,680	1,094	7,923	362	13,187	302	6,419	66	6,386	66
Oklahoma.....	1,997	49	1,808	43	1,602	41	206	2	189	0	28	1	28	1
Arkansas.....	18,584	461	16,810	418	15,444	332	1,366	86	1,774	43	2,788	24	2,787	24
Western division.....	213,412	9,434	147,257	7,743	105,346	4,524	41,911	3,219	68,155	1,691	11,236	53	1,142	15
Montana.....	10,567	223	7,087	184	5,068	115	2,019	69	3,780	39	352	1	45	1
Wyoming.....	5,116	89	3,566	71	2,556	52	1,010	19	1,550	12	56	3	31	3
Colorado.....	38,338	1,754	29,547	1,541	23,711	1,127	5,836	414	8,791	213	441	5	406	5
New Mexico.....	4,835	74	3,833	65	3,155	47	678	18	1,002	9	68	2	40	.....
Arizona.....	3,524	32	2,320	19	1,746	13	574	6	1,204	13	181	1	13	.....
Utah.....	10,360	539	7,083	413	4,118	169	2,965	244	3,277	126	188	1	14	1
Nevada.....	2,881	54	1,871	41	1,208	16	663	25	1,010	13	370	3	17	1
Idaho.....	4,064	83	2,744	65	1,983	37	761	28	1,320	18	209	2	8	.....
Washington.....	28,012	843	19,280	687	14,914	513	4,366	174	8,732	156	409	2	69	.....
Oregon.....	17,427	835	13,135	726	10,627	510	2,508	216	4,292	109	1,107	4	42	1
California.....	87,988	4,914	56,791	3,931	36,260	1,925	20,531	2,006	31,197	983	7,855	29	457	3

(a) Persons of negro descent, Chinese, Japanese, and civilized Indians.

TABLE 5.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY SEX, GENERAL NATIVITY, AND COLOR, BY STATES AND TERRITORIES: 1890—Cont'd.

MANUFACTURING AND MECHANICAL INDUSTRIES.

STATES AND TERRITORIES.	TOTAL WHITE.		TOTAL NATIVE WHITE.		NATIVE WHITE—NATIVE PARENTS.		NATIVE WHITE—FOREIGN PARENTS.		FOREIGN WHITE.		TOTAL COLORED. (a)		PERSONS OF NEGRO DESCENT.	
	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.	Males.	Fe-males.
The United States.	3,906,410	999,859	2,536,165	772,986	1,676,667	390,468	859,498	382,518	1,370,245	226,873	157,641	27,383	146,153	26,817
North Atlantic division.	1,945,897	605,364	1,213,606	437,709	757,710	189,495	455,896	248,214	732,201	167,655	11,222	3,267	10,964	3,141
Maine.....	59,324	20,547	46,044	14,525	40,340	11,637	5,704	2,888	13,280	6,022	113	70	55	11
New Hampshire....	49,116	22,194	32,871	12,028	27,446	8,184	5,425	3,844	16,245	10,166	73	25	72	23
Vermont.....	24,569	5,094	18,042	4,380	13,490	2,616	4,552	1,764	6,527	714	33	6	31	6
Massachusetts....	337,610	136,455	190,355	84,373	121,447	33,235	74,908	51,138	141,255	52,082	1,151	430	1,132	426
Rhode Island.....	54,499	26,538	29,550	15,425	16,175	4,660	13,375	10,765	24,949	11,113	340	171	323	169
Connecticut.....	110,012	35,636	67,903	26,044	42,148	9,595	25,755	16,449	42,109	9,592	581	168	565	165
New York.....	632,030	192,734	348,843	143,002	173,250	47,543	175,593	95,459	283,187	49,732	2,400	1,052	2,290	1,004
New Jersey.....	175,795	45,950	107,561	35,551	65,308	14,358	42,253	21,193	68,234	10,399	1,876	271	1,864	263
Pennsylvania.....	502,942	120,216	368,437	102,381	258,106	57,667	108,331	44,714	136,505	17,835	4,655	1,074	4,632	1,074
South Atlantic division.	253,716	71,546	217,963	67,199	182,943	55,326	35,020	11,873	35,753	4,347	71,047	14,505	70,952	14,477
Delaware.....	14,578	2,658	11,801	2,483	9,006	1,654	2,795	829	2,777	175	816	52	816	52
Maryland.....	73,556	22,929	56,264	20,250	37,551	12,606	18,713	7,653	17,292	2,670	4,458	1,072	4,456	1,071
Dist. of Columbia..	15,590	3,393	12,856	3,047	9,431	2,072	3,425	975	2,734	346	2,841	1,487	2,838	1,486
Virginia.....	44,401	9,835	41,756	9,668	39,362	9,165	2,394	503	2,645	167	18,904	4,474	18,852	4,474
West Virginia.....	26,460	3,415	23,770	3,235	19,019	2,344	3,851	691	2,690	180	927	40	927	40
North Carolina.....	25,106	11,062	24,578	11,029	24,160	10,915	418	114	528	33	12,125	2,352	12,113	2,352
South Carolina.....	12,563	6,268	11,812	6,161	11,078	5,883	734	278	851	107	9,864	2,342	9,850	2,338
Georgia.....	30,223	10,242	28,022	10,089	26,451	9,705	1,571	384	2,201	153	16,610	1,919	16,604	1,919
Florida.....	11,139	1,744	7,104	1,228	5,985	982	1,119	246	4,035	516	4,502	767	4,496	745
North Central division.	1,270,970	247,036	791,593	201,582	500,827	101,971	290,766	90,611	479,377	45,454	13,215	1,877	12,983	1,804
Ohio.....	270,219	56,890	194,727	50,593	122,756	25,592	71,971	25,001	75,492	6,297	3,439	439	3,428	438
Indiana.....	116,018	21,635	95,459	20,367	72,611	14,082	22,848	6,285	20,559	1,268	1,078	177	1,669	176
Illinois.....	264,487	52,674	132,780	37,535	74,471	15,636	58,309	21,899	131,707	15,139	1,620	359	1,603	359
Michigan.....	137,230	24,025	75,269	17,567	47,132	9,054	28,137	8,513	61,961	6,458	648	195	549	138
Wisconsin.....	108,356	20,768	51,787	15,818	19,351	3,813	32,436	12,005	56,569	4,950	134	37	104	29
Minnesota.....	71,544	12,052	29,638	8,110	15,769	2,777	13,869	5,333	41,906	3,942	100	52	88	48
Iowa.....	73,269	16,041	50,256	14,233	35,511	8,541	14,745	5,692	23,013	1,808	309	35	309	35
Missouri.....	124,719	24,260	86,642	21,422	53,702	10,731	32,940	10,691	38,077	2,838	3,539	389	3,531	389
North Dakota.....	3,064	828	1,568	435	959	195	609	240	2,396	393	4	1	4	1
South Dakota.....	8,877	1,594	5,488	1,266	3,845	738	1,643	528	3,380	328	23	4	14	4
Nebraska.....	47,513	7,823	32,857	6,531	25,832	4,601	7,025	1,840	14,656	1,292	392	61	369	64
Kansas.....	44,774	8,446	35,122	7,705	28,888	6,121	6,234	1,584	9,652	741	1,329	125	1,315	123
South Central division.	219,594	46,181	181,991	43,030	140,518	31,329	35,473	11,701	37,003	3,151	50,320	7,225	50,252	7,183
Kentucky.....	60,170	15,151	48,569	14,285	33,622	8,017	14,947	6,268	11,601	866	6,525	829	6,522	829
Tennessee.....	39,085	7,520	35,718	7,295	32,881	6,697	2,837	598	3,367	225	10,427	1,140	10,407	1,139
Alabama.....	22,424	5,728	20,054	5,605	18,352	5,260	1,702	345	2,370	123	9,934	933	9,926	930
Mississippi.....	10,628	2,482	9,438	2,412	8,345	2,188	1,093	224	1,190	70	5,708	819	5,694	793
Louisiana.....	23,662	6,756	17,456	5,918	9,393	2,919	8,063	2,999	6,206	838	8,469	2,777	8,456	2,767
Texas.....	45,352	6,454	34,513	5,494	29,060	4,388	5,453	1,106	10,839	960	5,807	452	5,799	450
Oklahoma.....	1,076	146	1,702	138	1,517	116	185	22	274	8	44	2	42	2
Arkansas.....	16,297	1,944	14,541	1,883	13,348	1,744	1,193	139	1,756	61	3,406	273	3,406	273
Western division.....	216,233	29,732	181,012	23,466	88,669	12,347	42,343	11,119	85,221	6,266	11,837	509	1,002	212
Montana.....	10,750	908	5,600	668	3,697	396	1,903	272	5,150	240	87	19	45	13
Wyoming.....	4,293	320	2,963	248	2,116	171	847	77	1,330	72	21	.....	20	.....
Colorado.....	34,950	3,969	23,752	3,301	18,202	2,452	5,550	849	11,198	668	405	56	401	55
New Mexico.....	3,363	580	2,481	535	1,999	459	482	76	882	45	44	10	24	3
Arizona.....	2,377	313	1,381	132	984	73	397	59	996	181	39	11	12	4
Utah.....	11,574	1,752	5,780	1,129	3,249	376	2,531	753	5,794	623	21	5	14	2
Nevada.....	2,507	368	1,410	277	916	124	494	153	1,097	91	173	13	5	2
Idaho.....	3,589	384	2,232	304	1,588	197	114	107	1,357	80	12	2	.....	11
Washington.....	34,187	2,384	20,590	1,823	15,551	1,812	5,039	511	13,597	561	392	19	87	15
Oregon.....	19,445	2,426	12,806	2,037	10,310	1,504	2,496	533	6,639	389	1,075	14	37	10
California.....	89,198	16,328	52,017	13,012	30,057	5,283	21,980	7,729	37,181	3,316	9,568	367	357	107

a Persons of negro descent, Chinese, Japanese, and civilized Indians.

STATISTICS OF POPULATION.

TABLE 6.—TOTAL PERSONS 10 YEARS OF AGE AND OVER IN THE UNITED STATES ENGAGED IN EACH

	OCCUPATIONS.	WHITE.			NATIVE WHITE.			NATIVE WHITE—NATIVE PARENTS.		
		Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
1	All occupations.....	19,542,188	16,603,147	2,939,041	14,437,431	12,273,541	2,163,890	10,895,023	9,535,827	1,359,196
2	Agriculture, fisheries, and mining.....	7,222,925	6,972,005	250,920	5,917,024	5,699,725	217,299	5,122,613	4,918,722	203,891
3	Agricultural laborers (a).....	1,884,213	1,815,020	69,193	1,637,349	1,571,073	66,276	1,375,111	1,312,302	62,809
4	Apiarists.....	1,740	1,696	44	1,483	1,442	41	1,269	1,234	35
5	Dairymen and dairywomen.....	17,184	15,631	1,553	9,631	8,497	1,134	6,934	6,138	796
6	Farmers, planters, and overseers (a).....	4,685,040	4,508,238	176,802	3,912,773	3,765,077	147,696	3,479,033	3,340,291	138,742
7	Fishermen and oystermen (a).....	43,920	48,837	83	36,289	36,218	71	31,975	31,911	64
8	Gardeners, florists, nurserymen, and vine growers.....	64,908	62,832	2,076	32,872	31,600	1,272	22,943	22,127	816
9	Lumbermen and raftsmen.....	61,687	61,663	24	40,769	40,754	15	32,519	32,506	13
10	Miners (coal).....	189,122	198,920	202	94,958	94,866	92	56,758	56,708	50
11	Miners (not otherwise specified).....	127,270	127,189	81	60,504	60,455	49	42,492	42,461	31
12	Quarrymen.....	34,407	34,381	26	16,747	16,733	14	11,897	11,891	6
13	Stock raisers, herders, and drovers.....	68,449	67,804	645	52,191	51,694	497	42,693	42,278	415
14	Wood choppers.....	24,317	24,304	13	16,547	16,536	11	14,453	14,443	10
15	Other agricultural pursuits (a).....	5,668	5,490	178	4,911	4,780	131	4,536	4,432	104
16	Professional service.....	909,186	606,390	302,796	793,073	511,900	283,173	640,785	428,803	211,982
17	Actors.....	9,270	5,265	3,885	7,427	4,209	3,128	5,026	2,864	2,162
18	Architects.....	8,048	8,026	22	5,878	5,860	18	4,348	4,322	16
19	Artists and teachers of art.....	22,333	11,586	10,747	18,083	8,128	9,955	13,888	5,953	7,935
20	Authors and literary and scientific persons.....	6,603	3,901	2,702	5,533	3,036	2,497	4,556	2,495	2,061
21	Chemists, assayers, and metallurgists.....	4,482	4,443	39	3,088	3,051	37	2,175	2,153	22
22	Clergymen.....	75,972	74,878	1,094	57,552	56,640	912	50,031	49,232	799
23	Dentists.....	17,371	17,036	335	15,952	15,639	313	13,814	13,597	217
24	Designers, draftsmen, and inventors.....	9,362	9,057	305	6,796	6,547	249	4,857	4,718	139
25	Engineers (civil, mechanical, electrical, and mining) and surveyors.....	42,955	42,832	123	35,195	35,089	106	27,723	27,659	64
26	Journalists.....	21,710	20,827	883	18,524	17,716	808	15,298	14,623	675
27	Lawyers.....	89,190	88,982	208	83,175	82,974	201	72,141	71,972	169
28	Musicians and teachers of music.....	60,236	60,328	33,908	46,634	45,302	31,332	33,916	10,169	23,727
29	Officers of United States army and navy.....	2,857	2,857	2,453	2,453	2,453	2,118	2,118	2,118	2,118
30	Officials (government) (a).....	78,553	73,703	4,850	66,639	62,122	4,517	53,150	49,382	3,768
31	Physicians and surgeons.....	103,482	99,058	4,424	92,508	88,656	3,852	82,576	79,374	3,202
32	Professors in colleges and universities.....	5,300	4,616	684	4,281	3,657	624	3,579	3,073	506
33	Teachers.....	326,887	89,379	237,508	305,268	81,504	223,764	236,445	70,604	165,841
34	Theatrical managers, showmen, etc.....	16,064	15,993	611	13,925	13,446	479	10,151	9,794	357
35	Veterinary surgeons.....	6,425	6,424	1	4,881	4,880	1	4,025	4,024	1
36	Other professional service.....	1,546	1,079	467	1,281	901	380	978	657	321
37	Domestic and personal service.....	3,334,184	2,174,733	1,159,451	1,959,117	1,259,868	699,249	1,342,028	891,132	450,896
38	Barbers and hairdressers.....	66,768	64,460	2,308	44,375	42,639	1,736	25,610	24,826	784
39	Bartenders.....	53,910	53,768	142	33,965	33,880	85	16,149	16,119	30
40	Boarding and lodging house keepers.....	41,668	10,884	30,784	28,038	6,990	21,048	22,902	5,872	17,030
41	Engineers and firemen (not locomotive).....	133,398	133,351	47	94,945	94,911	34	68,860	68,836	24
42	Hotel keepers.....	43,579	38,420	5,159	31,080	27,299	3,781	24,896	21,750	3,146
43	Housekeepers and stewards (a).....	82,614	4,736	77,878	61,058	2,955	58,103	48,939	2,116	46,823
44	Hunters, trappers, guides, and scouts.....	1,785	1,784	1	1,506	1,505	1	1,271	1,272	1
45	Janitors.....	16,281	13,938	2,343	8,578	7,548	1,030	5,875	5,406	469
46	Laborers (not specified) (a).....	1,541,794	1,525,514	16,280	872,434	860,896	11,538	636,185	627,952	8,233
47	Laundresses and laundresses.....	74,563	10,046	64,517	38,970	6,436	32,534	24,236	4,559	19,677
48	Nurses and midwives.....	42,345	5,854	36,491	26,994	3,667	23,327	20,243	2,763	17,480
49	Restaurant keepers.....	16,800	14,939	1,861	10,607	9,508	1,099	7,651	6,911	740
50	Saloon keepers.....	70,368	68,164	2,204	31,584	30,900	684	15,691	15,394	297
51	Servants.....	1,035,220	119,820	915,408	605,884	64,200	541,675	377,035	42,608	334,427
52	Sextons.....	4,271	4,252	19	2,580	2,571	9	1,776	1,773	3
53	Soldiers, sailors, and marines (United States) (a).....	25,056	25,056	275	13,700	13,700	0	8,590	8,590	0
54	Watchmen, policemen, and detectives.....	72,593	72,318	275	46,362	46,437	245	31,712	31,504	208
55	Other domestic and personal service.....	10,643	7,424	3,219	6,437	4,117	2,320	4,405	2,881	1,524
56	Trade and transportation.....	3,169,624	2,943,609	226,015	2,457,066	2,265,883	191,183	1,722,462	1,620,503	101,959
57	Agents (claim, commission, real estate, insurance, etc.) and collectors.....	173,335	168,525	4,810	142,974	138,802	4,172	116,030	112,675	3,355
58	Auctioneers.....	3,192	3,190	2	2,726	2,724	2	2,246	2,245	1
59	Bankers and brokers (money and stocks).....	29,854	29,357	497	24,417	24,070	347	20,670	20,371	299
60	Boatmen and canalmen.....	14,885	14,854	31	12,229	12,204	25	8,686	8,671	15
61	Bookkeepers and accountants (a).....	158,907	131,190	27,717	135,554	110,002	25,552	91,856	76,942	14,914
62	Brokers (commercial).....	5,940	5,930	10	4,885	4,879	6	3,922	3,917	5
63	Clerks and copyists (a).....	551,156	497,298	53,858	473,206	415,870	57,336	304,447	272,591	31,856
64	Commercial travelers.....	58,580	57,977	603	50,128	49,579	549	39,582	39,158	424
65	Draymen, hackmen, teamsters, etc.....	324,311	324,126	185	236,720	236,585	135	155,378	155,307	71
66	Foremen and overseers.....	35,558	34,594	964	22,383	21,577	806	15,931	15,571	360
67	Hostlers.....	43,500	43,492	8	28,631	28,673	8	20,448	20,444	4
68	Hucksters and peddlers.....	55,861	54,080	1,775	24,390	23,896	494	16,544	16,259	285
69	Livery stable keepers.....	26,364	26,317	47	22,548	22,513	35	18,711	18,688	23
70	Locomotive engineers and firemen (a).....	78,121	78,117	4	66,535	66,532	3	49,096	49,093	3
71	Merchants and dealers in drugs and chemicals (retail).....	46,149	45,416	733	39,681	39,039	642	30,672	30,274	398
72	Merchants and dealers in dry goods (retail).....	42,349	40,180	2,169	31,712	30,435	1,277	25,681	24,912	769
73	Merchants and dealers in groceries (retail).....	112,861	106,665	6,196	73,542	71,317	2,225	53,919	52,744	1,175
74	Merchants and dealers in wines and liquors (retail).....	10,021	9,885	136	4,116	4,080	36	1,855	1,827	28
75	Merchants and dealers in wines and liquors (wholesale).....	3,630	3,592	38	1,746	1,727	19	911	902	9

a See explanatory notes in Table 2.

SPECIFIED OCCUPATION, CLASSIFIED BY SEX, GENERAL NATIVITY, AND COLOR: 1890.

NATIVE WHITE—FOREIGN PARENTS.			FOREIGN WHITE.			COLORED. (b)			PERSONS OF NEGRO DESCENT.			
Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	
3,542,408	2,737,714	804,694	5,104,757	4,329,606	775,151	3,193,473	2,217,943	975,530	3,073,164	2,101,379	971,785	1
794,411	781,003	13,408	1,305,901	1,272,280	33,621	1,790,411	1,361,808	428,603	1,757,403	1,329,594	427,809	2
262,238	258,771	3,467	246,864	243,947	2,917	1,119,848	741,937	377,911	1,106,728	729,197	377,531	3
214	208	6	257	254	3	33	32	1	81	80	1	4
2,697	2,359	338	7,533	7,134	419	711	530	181	660	485	181	5
433,740	424,786	8,954	772,207	743,161	29,106	596,517	546,892	49,625	590,666	541,300	49,366	6
4,314	4,307	7	12,631	12,619	12	11,242	11,062	180	10,071	9,950	121	7
9,929	9,473	456	32,036	31,232	804	7,693	7,354	339	5,488	5,182	306	8
8,250	8,248	2	20,918	20,909	9	4,179	4,175	4	3,742	3,738	4	9
38,200	38,158	42	104,164	104,054	110	9,423	9,410	13	9,292	9,279	13	10
18,012	17,994	18	66,766	66,734	32	13,777	13,725	52	6,517	6,511	6	11
4,850	4,842	8	17,660	17,648	12	3,249	3,247	2	3,198	3,196	2	12
9,498	9,416	82	16,258	16,110	148	2,280	2,243	37	1,325	1,300	25	13
2,094	2,093	1	7,770	7,768	2	9,380	9,361	19	7,676	7,661	15	14
375	348	27	757	710	47	12,079	11,840	239	12,003	11,765	238	15
154,288	83,097	71,191	114,113	94,499	19,623	35,147	28,256	8,891	33,994	25,170	8,824	16
2,401	1,435	966	1,843	1,086	757	458	394	64	180	130	50	17
1,510	1,538	2	2,170	2,166	4	22	22	—	21	21	—	18
4,185	2,175	2,020	4,250	3,458	792	163	95	68	150	84	66	19
977	541	436	1,070	865	205	111	88	23	71	49	22	20
913	898	15	1,394	1,392	2	21	21	—	20	20	—	21
7,521	7,408	113	18,420	18,238	182	12,231	12,182	49	12,159	12,110	49	22
2,138	2,042	96	1,419	1,387	22	127	125	2	120	118	2	23
1,939	1,823	116	2,566	2,510	56	21	20	—	23	23	—	24
7,472	7,430	42	7,760	7,743	17	281	283	1	279	273	6	25
3,226	3,093	133	3,186	3,111	75	139	134	5	134	129	5	26
11,034	11,002	32	6,015	6,058	7	440	440	—	431	431	—	27
12,718	5,113	7,605	13,602	11,026	2,576	1,919	1,308	611	1,881	1,287	594	28
335	335	—	404	404	—	69	69	—	60	60	—	29
13,489	12,740	749	11,914	11,581	333	1,111	1,086	25	1,046	1,021	25	30
9,932	9,282	650	10,974	10,402	572	1,323	1,110	133	903	794	115	31
702	584	118	1,019	959	60	92	81	11	62	81	11	32
68,823	10,503	57,923	21,619	7,875	13,744	15,065	7,202	7,863	15,008	7,155	7,853	33
3,774	3,632	122	2,679	2,517	162	1,451	1,428	23	1,310	1,292	18	34
856	856	—	1,544	1,544	—	60	68	1	69	68	1	35
373	244	59	265	178	87	23	11	12	22	10	12	36
617,089	368,736	248,353	1,375,067	914,865	460,202	1,026,393	518,146	508,247	963,080	457,091	505,989	37
18,765	17,813	952	22,393	21,821	572	18,214	17,697	517	17,480	16,966	514	38
17,816	17,761	55	19,945	19,888	57	1,896	1,896	—	1,878	1,874	4	39
5,136	1,118	4,018	13,630	3,891	9,736	2,681	872	1,809	2,323	537	1,786	40
26,085	26,075	10	38,453	38,440	13	6,367	6,367	—	6,426	6,426	—	41
6,184	5,549	635	12,499	11,130	1,369	497	371	126	420	294	126	42
12,119	839	11,280	21,556	1,781	19,775	9,422	1,211	8,211	9,243	1,144	8,104	43
233	233	—	279	279	—	740	731	18	91	91	—	44
2,703	2,142	561	7,703	6,390	1,313	5,275	4,838	437	5,243	4,807	436	45
236,249	232,944	3,305	669,360	661,614	7,746	371,579	333,048	38,531	349,002	310,733	38,269	46
14,734	1,877	12,857	35,593	3,610	31,983	173,899	21,785	152,114	153,684	2,144	151,540	47
6,751	904	5,847	15,351	2,187	13,164	5,241	336	4,905	5,213	323	4,890	48
2,956	2,597	359	5,431	762	4,669	2,483	1,928	555	2,157	1,606	551	49
15,833	15,506	327	38,784	37,264	1,520	1,017	940	71	932	882	70	50
228,849	21,601	207,248	429,864	55,011	374,853	419,043	118,332	300,711	401,215	101,742	299,473	51
804	798	6	1,691	1,681	10	711	702	9	702	693	9	52
5,110	5,110	—	11,356	11,356	—	2,863	2,863	—	2,782	2,782	—	53
14,670	14,633	37	26,211	26,181	30	2,036	2,032	4	2,019	2,015	4	54
2,022	1,236	786	4,206	3,307	899	2,420	2,195	225	2,365	2,152	213	55
734,604	645,380	89,224	712,558	677,726	34,832	156,498	154,092	2,406	145,717	143,371	2,346	56
26,944	26,127	817	30,361	29,723	638	1,247	1,182	65	1,172	1,108	64	57
480	479	1	466	466	—	13	13	—	13	13	—	58
3,747	3,669	78	5,437	5,287	150	154	151	3	97	94	3	59
3,343	3,533	19	2,656	2,650	6	1,831	1,829	2	1,799	1,797	2	60
43,698	33,660	10,038	23,353	21,188	2,165	407	412	55	293	239	54	61
963	962	1	1,055	1,051	4	20	20	—	17	17	—	62
168,759	143,279	25,480	77,950	71,423	6,527	6,202	5,841	361	4,972	4,618	354	63
10,546	10,421	125	8,432	8,398	34	111	103	8	103	95	8	64
81,342	81,278	64	87,591	87,541	50	44,188	44,139	49	43,963	43,914	49	65
6,452	6,006	446	13,175	13,017	158	526	515	11	471	460	11	66
8,233	8,229	4	14,819	14,819	—	10,536	10,522	14	10,500	10,486	14	67
7,836	7,637	199	31,481	30,190	1,291	3,222	2,738	484	2,516	2,041	475	68
3,337	3,825	12	3,816	3,804	12	393	393	—	390	390	—	69
17,439	17,439	—	11,586	11,586	—	1,342	1,342	—	1,336	1,336	—	70
9,009	8,765	244	6,468	6,377	91	226	225	1	139	138	1	71
6,031	5,523	508	10,637	9,745	892	178	169	9	135	127	8	72
19,623	18,573	1,050	39,319	35,348	3,971	2,136	1,973	163	1,829	1,668	161	73
2,281	2,253	28	5,905	5,805	100	57	57	—	53	53	—	74
835	825	10	1,884	1,865	19	13	13	—	11	11	—	75

b Persons of negro descent, Chinese, Japanese, and civilized Indians.

TABLE 6.—TOTAL PERSONS 10 YEARS OF AGE AND OVER IN THE UNITED STATES ENGAGED IN EACH

OCCUPATIONS.	WHITE.			NATIVE WHITE.			NATIVE WHITE—NATIVE PARENTS.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
Trade and transportation—Continued.									
76 Merchants and dealers, not specified (retail).....	438,086	422,613	15,473	320,749	312,247	8,502	246,785	241,705	5,080
77 Merchants and dealers (wholesale), importers, and shipping merchants.....	26,876	26,724	152	20,141	20,030	111	15,597	15,522	75
78 Messengers and errand and office boys.....	47,215	44,380	2,835	40,973	38,617	2,356	15,968	15,381	587
79 Newspaper carriers and newsboys.....	4,997	4,930	67	3,846	3,800	46	2,035	2,015	20
80 Officials of banks and of insurance, trade, transportation, trust, and other companies. (a)	39,674	39,457	217	32,955	32,745	210	26,804	26,635	169
81 Packers and shippers.....	24,216	17,741	6,475	17,751	12,293	5,458	9,008	7,069	1,939
82 Pilots.....	4,106	4,105	1	3,580	3,579	1	2,912	2,912	0
83 Porters and helpers (in stores and warehouses).....	12,545	12,236	309	6,398	6,166	232	2,329	2,249	80
84 Sailors (a).....	51,176	51,159	17	32,433	32,419	14	25,575	25,570	5
85 Salesmen and saleswomen.....	263,045	204,739	58,306	222,062	170,700	51,362	139,772	117,697	22,075
86 Steam railroad employes (not otherwise specified). (a)	333,188	331,984	1,204	232,284	231,437	847	172,858	172,315	543
87 Stenographers and typewriters.....	33,292	12,054	21,238	30,464	10,589	19,875	20,447	7,566	12,881
88 Street railway employes.....	36,844	36,833	11	26,059	26,052	7	17,280	17,276	4
89 Telegraph and telephone operators.....	52,052	43,641	8,411	48,224	40,569	7,655	34,697	30,463	4,234
90 Telegraph and telephone linemen and electric light and power company employes.....	10,863	10,194	669	8,468	7,952	516	5,367	5,210	157
91 Undertakers.....	9,654	9,575	79	8,004	7,946	58	5,728	5,694	34
92 Weighers, gaugers, and measurers.....	3,746	3,728	18	2,817	2,799	18	1,940	1,925	15
93 Other persons in trade and transportation.....	3,475	2,725	750	1,695	1,439	256	795	708	87
94 Manufacturing and mechanical industries.....	4,906,269	3,906,410	999,859	3,309,151	2,536,165	772,986	2,067,135	1,676,667	390,468
95 Agricultural implement makers (not otherwise classified). (a)	3,640	3,616	24	2,131	2,110	21	1,431	1,423	8
96 Apprentices (blacksmiths).....	4,013	4,012	1	3,479	3,479	0	1,784	1,784	0
97 Apprentices (boot and shoe makers).....	1,007	980	27	797	775	22	292	286	6
98 Apprentices (carpenters and joiners).....	6,482	6,473	9	5,590	5,583	7	3,066	3,063	3
99 Apprentices (carriage and wagon makers).....	843	842	1	736	735	1	363	363	0
100 Apprentices (dressmakers).....	4,233	4,233	0	3,580	3,580	0	971	971	0
101 Apprentices (leather curriers, etc.).....	417	417	0	349	349	0	127	127	0
102 Apprentices (machinists).....	9,714	9,702	12	8,467	8,459	8	3,689	3,686	3
103 Apprentices (masons).....	1,812	1,811	1	1,501	1,500	1	642	642	0
104 Apprentices (milliners).....	1,204	1,204	0	1,092	1,092	0	494	494	0
105 Apprentices (painters).....	2,269	2,262	7	1,940	1,934	6	943	940	3
106 Apprentices (plumbers).....	4,605	4,603	2	4,099	4,098	1	1,120	1,120	0
107 Apprentices (printers).....	4,584	4,437	147	4,091	3,960	131	1,967	1,901	66
108 Apprentices (tailors).....	2,574	1,877	697	1,770	1,302	468	457	351	106
109 Apprentices (tinsmiths).....	2,005	2,002	3	1,751	1,749	2	765	765	0
110 Apprentices (not otherwise specified).....	34,867	33,353	1,514	29,887	28,564	1,323	12,411	11,874	537
111 Artificial flower makers.....	3,038	498	2,540	1,952	186	1,766	321	57	264
112 Bakers.....	58,969	56,755	2,214	23,653	22,289	1,364	11,749	11,109	640
113 Basket makers.....	4,569	4,085	484	2,964	2,547	417	2,067	1,771	296
114 Blacksmiths.....	194,512	194,457	55	130,237	130,204	33	94,791	94,770	21
115 Bleachers, dyers, and scourers.....	13,982	12,313	1,669	6,775	5,578	1,197	2,692	2,363	329
116 Bone and ivory workers.....	1,687	1,465	222	1,123	949	174	636	551	85
117 Bookbinders.....	23,783	12,242	11,546	18,865	8,637	10,228	6,959	3,849	3,110
118 Boot and shoe makers and repairers.....	207,181	173,591	33,590	130,569	101,516	29,053	84,423	70,323	14,098
119 Bottlers and mineral and soda water makers.....	7,140	6,594	546	4,198	3,813	385	1,648	1,539	109
120 Box makers (paper).....	17,732	4,694	13,038	14,797	3,504	11,293	5,737	1,832	3,905
121 Box makers (wood).....	10,611	9,303	1,308	7,926	6,756	1,170	3,957	3,487	470
122 Brass workers (not otherwise specified). (a)	17,174	16,261	913	10,749	10,072	677	3,981	3,828	153
123 Brewers and maltsters (a).....	20,178	20,110	68	4,484	4,460	24	1,229	1,219	10
124 Brick and tile makers and terra cotta workers (a).....	48,863	48,745	118	26,351	26,270	81	17,397	17,361	36
125 Britannia workers.....	901	784	117	597	520	77	321	292	29
126 Broom and brush makers.....	9,935	8,772	1,163	7,201	6,399	892	4,026	3,778	248
127 Builders and contractors.....	45,330	45,320	10	31,272	31,266	6	23,505	23,501	4
128 Butchers.....	102,702	102,587	115	63,880	63,839	41	36,708	36,700	8
129 Butter and cheese makers.....	11,128	10,730	398	8,602	8,272	330	6,057	5,808	189
130 Button makers.....	2,600	1,010	1,590	1,070	675	395	619	285	334
131 Cabinet makers.....	35,562	35,538	24	15,562	15,548	14	10,083	10,075	8
132 Candle, soap, and tallow makers.....	3,396	2,999	397	2,022	1,688	334	813	730	83
133 Carpenters and joiners.....	588,963	588,782	181	480,123	429,990	135	351,434	351,330	104
134 Carpet makers (a).....	22,217	11,503	10,714	13,354	5,746	7,608	6,038	2,736	3,302
135 Carriage and wagon makers (not otherwise classified). (a)	34,155	33,927	228	23,995	23,814	181	18,027	17,916	111
136 Charcoal, coke, and lime burners.....	7,107	7,094	13	3,748	3,740	8	3,146	3,140	6
137 Chemical works employes (a).....	3,550	2,537	1,013	2,143	1,297	846	1,053	759	294
138 Clock and watch makers and repairers.....	25,176	20,481	4,695	17,348	13,470	3,878	10,778	8,677	2,101
139 Compositors (a).....	29,887	23,600	6,287	25,332	19,533	5,799	16,356	12,794	3,562
140 Confectioners.....	22,756	17,155	5,601	14,331	10,586	3,745	7,570	6,198	1,372
141 Coopers.....	44,817	44,769	48	29,036	29,003	33	19,082	19,067	15
142 Copper workers.....	3,355	3,348	7	1,603	1,597	6	702	701	1
143 Corset makers.....	6,525	730	5,795	5,059	494	4,565	1,655	274	1,381
144 Cotton mill operatives (a).....	172,061	79,355	92,706	90,494	39,638	50,856	49,337	23,355	25,982
145 Distillers and rectifiers (a).....	2,840	2,831	9	2,071	2,064	7	1,631	1,629	2
146 Door, sash, and blind makers (a).....	4,995	4,985	10	3,807	3,801	6	2,466	2,465	1
147 Dressmakers.....	281,580	819	280,761	231,395	362	231,033	129,386	180	129,206
148 Electroplaters.....	2,751	2,639	112	2,039	1,951	88	948	926	22
149 Electrotypers and stereotypers (a).....	1,462	1,457	5	1,155	1,152	3	504	502	2
150 Engravers.....	8,285	7,984	301	5,876	5,607	269	2,720	2,573	147
151 Fertilizer makers (a).....	445	442	3	237	235	2	143	143	0
152 Fish curers and packers (a).....	1,053	858	195	795	653	142	488	409	79
153 Gas works employes (a).....	4,940	4,944	5	2,347	2,345	2	1,403	1,403	0
154 Glass workers.....	34,029	32,324	1,705	24,042	23,469	1,473	13,440	12,796	644

a See explanatory notes in Table 2.

OCCUPATIONS.

73

SPECIFIED OCCUPATION, CLASSIFIED BY SEX, GENERAL NATIVITY, AND COLOR: 1890—Continued.

NATIVE WHITE—FOREIGN PARENTS.			FOREIGN WHITE.			COLORED. (b)			PERSONS OF NEGRO DESCENT.			
Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	
73,984	70,542	3,422	117,337	110,366	6,971	8,176	7,701	475	4,490	4,041	449	76
4,544	4,508	36	6,735	6,694	41	567	561	6	524	518	6	77
25,005	23,236	1,769	6,242	5,763	479	4,140	4,066	74	4,119	4,046	73	78
1,811	1,785	26	1,151	1,130	21	291	286	5	291	286	5	79
6,151	6,110	41	6,719	6,712	7	226	226	—	213	213	—	80
8,743	5,224	3,519	6,465	5,448	1,017	730	685	45	567	530	37	81
668	667	1	528	526	—	153	153	—	148	148	—	82
4,069	3,917	152	6,147	6,070	77	11,811	11,766	45	11,694	11,649	45	83
6,858	6,849	9	18,743	18,740	3	4,723	4,723	—	4,598	4,598	—	84
82,290	53,003	29,287	40,983	34,039	6,944	1,349	1,204	145	1,166	1,023	143	85
59,426	59,122	304	100,904	100,547	357	49,562	49,328	234	46,212	45,980	232	86
10,017	3,023	6,994	2,828	1,465	1,363	126	94	32	126	94	32	87
8,779	8,776	3	10,785	10,781	4	590	590	—	589	589	—	88
13,527	10,106	3,421	3,828	3,072	756	162	99	63	156	93	63	89
3,101	2,742	359	2,395	2,242	153	271	271	—	271	271	—	90
2,276	2,252	24	1,650	1,629	21	237	233	4	231	227	4	91
877	874	3	929	929	—	114	114	—	114	114	—	92
900	731	169	1,780	1,286	494	408	355	53	399	346	53	93
1,242,016	859,498	382,518	1,597,118	1,370,245	226,873	185,024	157,641	27,383	172,970	146,153	26,817	94
700	687	13	1,509	1,506	3	115	115	—	115	115	—	95
1,695	1,695	—	534	533	1	231	230	1	226	225	1	96
505	489	16	210	205	5	24	24	—	22	22	—	97
2,524	2,520	4	892	890	2	278	278	—	263	263	—	98
373	372	1	107	107	—	9	9	—	9	9	—	99
2,609	—	2,609	653	—	653	107	—	107	107	—	107	100
222	222	—	68	68	—	4	4	—	4	4	—	101
4,778	4,773	5	1,247	1,243	4	24	24	—	19	19	—	102
859	858	1	311	311	—	115	115	—	113	113	—	103
598	—	598	112	—	112	—	—	—	—	—	—	104
997	904	3	329	328	1	52	52	—	51	51	—	105
2,979	2,978	1	506	505	1	19	19	—	19	19	—	106
2,124	2,059	65	493	477	16	51	46	5	48	43	5	107
1,313	951	362	804	575	229	51	48	3	50	47	3	108
986	984	2	254	253	1	32	32	—	30	30	—	109
17,476	16,690	786	4,980	4,789	191	831	803	28	818	790	28	110
1,631	129	1,502	1,089	312	774	5	5	—	3	—	3	111
11,904	11,180	724	35,316	34,466	850	1,228	1,155	73	1,135	1,064	71	112
897	776	121	1,605	1,538	67	656	429	227	333	319	14	113
35,446	35,434	12	64,275	64,253	22	10,825	10,822	3	10,762	10,759	3	114
4,083	3,215	868	7,207	6,735	472	228	190	38	225	187	38	115
487	398	89	504	516	4	4	4	—	4	4	—	116
11,966	4,788	7,118	4,923	3,605	1,318	70	56	14	66	52	14	117
46,146	31,191	14,955	76,612	72,075	4,537	6,363	6,276	87	5,065	4,982	83	118
2,550	2,274	276	2,942	2,781	161	90	87	3	88	85	3	119
9,060	1,672	7,388	2,935	1,190	1,745	25	20	5	19	15	4	120
3,969	3,269	700	2,685	2,547	138	272	269	3	237	234	3	121
6,768	6,244	524	6,425	6,189	236	91	91	—	89	80	—	122
3,255	3,241	14	15,094	15,650	44	184	184	—	136	136	—	123
8,954	8,909	45	22,512	22,475	37	11,351	11,325	26	10,521	10,495	26	124
276	228	48	304	264	40	3	3	—	2	2	—	125
3,265	2,621	644	2,644	2,373	271	180	177	3	174	172	2	126
7,767	7,765	2	14,058	14,054	4	658	658	—	596	596	—	127
27,172	27,139	33	38,822	38,748	74	2,754	2,752	2	2,510	2,508	2	128
2,545	2,404	141	2,526	2,458	68	83	78	5	81	76	5	129
1,351	390	961	630	335	295	1	1	—	345	345	—	130
5,479	5,473	6	20,000	19,990	10	353	353	—	46	46	—	131
1,209	958	251	1,374	1,311	63	54	52	2	48	46	2	132
78,691	78,660	31	158,838	158,792	46	22,519	22,511	8	22,318	22,310	8	133
7,316	3,010	4,306	8,863	5,757	3,106	85	43	42	83	43	40	134
5,968	5,898	70	10,160	10,113	47	383	381	2	383	381	2	135
602	600	2	3,359	3,354	5	1,597	1,595	2	1,595	1,593	2	136
1,090	538	552	1,407	1,240	167	78	76	2	78	76	2	137
6,570	4,793	1,777	7,828	7,011	817	76	75	1	61	60	1	138
8,976	6,739	2,237	4,555	4,067	488	173	145	28	169	141	28	139
6,761	4,888	2,373	8,425	6,569	1,856	495	422	73	477	405	72	140
9,954	9,936	18	15,781	15,766	15	2,669	2,669	—	2,648	2,648	—	141
901	896	5	1,752	1,751	1	29	29	—	29	29	—	142
3,404	220	3,184	1,406	236	1,230	3	3	—	8	3	—	143
41,157	16,253	24,874	81,567	39,717	41,850	1,081	822	259	1,077	820	257	144
440	435	5	769	767	2	474	474	—	472	472	—	145
1,341	1,336	5	1,188	1,184	4	46	46	—	46	46	—	146
102,009	182	101,827	50,185	457	49,728	7,584	17	7,567	7,479	7	7,472	147
1,091	1,025	66	712	688	24	5	5	—	5	5	—	148
651	650	1	307	305	—	9	9	—	9	9	—	149
3,156	3,034	122	2,409	2,377	32	35	33	2	25	23	2	150
94	92	2	208	207	1	287	284	3	264	261	3	151
307	244	63	258	205	53	226	226	—	37	37	—	152
944	942	2	2,602	2,599	3	275	275	—	274	274	—	153
11,502	10,673	829	9,087	8,855	232	253	248	5	252	247	5	154

b Persons of negro descent, Chinese, Japanese, and civilized Indians.

STATISTICS OF POPULATION.

TABLE 6.—TOTAL PERSONS 10 YEARS OF AGE AND OVER IN THE UNITED STATES ENGAGED IN EACH

OCCUPATIONS.	WHITE.			NATIVE WHITE.			NATIVE WHITE—NATIVE PARENTS.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
Manufacturing and mechanical industries—Cont'd.									
155 Glove makers.....	6,404	2,734	3,670	5,138	1,952	3,186	3,567	1,521	2,046
156 Gold and silver workers.....	20,175	16,826	3,349	13,964	11,153	2,811	7,146	6,097	1,049
157 Gunsmiths, locksmiths, and bell hangers.....	9,093	9,004	89	4,962	4,888	74	3,026	3,002	24
158 Hair workers.....	1,216	676	540	749	373	376	246	114	132
159 Harness and saddle makers and repairers.....	43,171	42,338	833	31,613	30,932	681	21,553	21,242	311
160 Hat and cap makers.....	23,949	17,259	6,690	15,832	10,334	5,498	7,839	5,446	2,393
161 Hosiery and knitting mill operatives (a).....	29,491	8,706	20,785	22,823	6,250	16,573	11,342	3,516	7,826
162 Iron and steel workers (a).....	139,106	136,807	2,299	80,840	79,053	1,827	45,478	44,813	665
163 Lace and embroidery makers.....	5,223	819	4,404	3,672	295	3,377	1,131	93	1,038
164 Lead and zinc workers.....	4,441	4,238	203	2,443	2,283	160	1,279	1,254	25
165 Leather curriers, dressers, finishers, and tanners..	38,194	37,905	289	19,525	19,313	212	10,539	10,464	75
166 Machinists.....	176,208	176,069	139	120,024	119,909	115	75,810	75,759	51
167 Manufacturers and officials of manufacturing companies.....	101,078	100,751	327	74,771	74,534	237	57,782	57,627	155
168 Marble and stone cutters.....	59,759	59,701	58	31,504	31,463	41	18,906	18,890	16
169 Masons (brick and stone).....	149,217	149,179	38	88,762	88,735	27	63,957	63,945	12
170 Meat and fruit packers, canners, and preservers (a)	5,208	3,839	1,369	3,042	2,107	935	1,552	1,225	327
171 Mechanics (not otherwise specified).....	14,735	14,722	13	12,083	12,074	9	10,037	10,030	7
172 Metal workers (not otherwise specified).....	16,467	15,616	851	9,675	8,996	679	4,858	4,632	226
173 Mill and factory operatives (not specified) (a).....	89,854	48,260	41,594	53,397	26,607	26,790	26,411	14,735	11,676
174 Millers (flour and grist).....	51,287	51,196	91	41,801	41,720	81	35,954	35,896	58
175 Milliners.....	60,091	392	59,699	52,757	257	52,500	34,726	131	34,595
176 Model and pattern makers.....	10,281	10,140	141	7,121	6,992	129	4,900	4,822	78
177 Molders.....	65,659	65,613	46	43,056	43,018	38	20,811	20,792	19
178 Musical instrument makers (not otherwise specified) (a)	648	625	23	360	340	20	176	169	7
179 Nail and tack makers (a).....	4,545	4,068	477	3,801	3,403	398	2,462	2,307	155
180 Oil well employes.....	9,135	9,125	10	8,323	8,314	9	7,019	7,012	7
181 Oil works employes.....	4,824	4,792	32	3,369	3,346	23	2,292	2,285	7
182 Painters, glaziers, and varnishers.....	215,462	214,205	1,257	159,918	158,895	1,023	110,446	109,984	462
183 Paper hangers.....	12,092	12,040	52	10,112	10,065	48	6,822	6,787	35
184 Paper mill operatives.....	27,550	18,610	8,940	18,333	12,154	6,179	9,667	7,322	2,345
185 Photographers.....	19,847	17,652	2,195	16,244	14,304	1,940	12,395	11,067	1,328
186 Piano and organ makers and tuners (a).....	14,604	14,288	316	8,801	8,542	259	4,798	4,672	126
187 Plasterers.....	34,991	34,979	12	24,705	24,700	5	18,575	18,573	2
188 Plumbers and gas and steam fitters.....	55,989	55,946	43	43,425	43,390	35	17,828	17,817	11
189 Potters.....	14,718	12,740	1,978	10,119	8,586	1,533	6,170	5,448	722
190 Powder and cartridge makers.....	1,340	918	422	949	606	343	442	305	77
191 Printers, lithographers, and pressmen (a).....	86,152	80,452	5,700	71,986	66,835	5,151	42,785	40,088	2,697
192 Print works operatives (a).....	6,684	5,146	1,538	3,990	2,883	1,107	1,509	1,189	320
193 Publishers of books, maps, and newspapers.....	6,264	6,190	74	5,208	5,140	68	4,254	4,201	53
194 Roofers and slaters.....	6,799	6,796	3	4,414	4,412	2	2,441	2,440	1
195 Rope and cordage makers.....	7,710	4,616	3,094	5,287	2,924	2,363	2,087	1,374	713
196 Rubber factory operatives.....	16,116	9,663	6,453	9,919	5,300	4,619	3,694	2,482	1,212
197 Sail, awning, and tent makers.....	3,222	2,973	249	2,199	2,009	190	1,419	1,339	80
198 Salt works employes.....	1,701	1,598	103	866	787	79	534	507	27
199 Saw and planing mill employes (a).....	115,918	115,065	253	75,694	75,490	204	58,605	58,499	106
200 Seamstresses (a).....	138,072	3,946	134,126	114,037	1,469	112,568	71,070	496	70,574
201 Sewing machine makers (not otherwise classified) (a)	872	842	30	577	555	22	316	304	12
202 Sewing machine operators (a).....	7,005	1,009	5,996	5,035	411	4,624	1,822	234	1,588
203 Ship and boat builders.....	22,445	22,442	3	13,982	13,980	2	10,743	10,743	0
204 Shirt, collar, and cuff makers (a).....	20,532	4,612	15,920	15,549	2,729	12,820	6,079	1,424	5,255
205 Silk mill operatives (a).....	34,824	14,174	20,650	20,692	5,755	14,937	6,617	2,086	4,531
206 Starch makers.....	715	558	157	456	329	127	224	180	44
207 Steam boiler makers.....	21,182	21,170	6	13,439	13,433	6	6,154	6,153	1
208 Stove, furnace, and grate makers (a).....	8,749	8,729	20	6,223	6,205	18	3,190	3,177	13
209 Straw workers.....	3,657	1,235	2,422	3,286	1,064	2,222	2,085	780	1,305
210 Sugar makers and refiners.....	2,548	2,544	4	676	676	0	325	325	0
211 Tailors and tailoresses (a).....	181,655	118,293	63,362	74,827	31,822	43,005	29,859	14,198	15,661
212 Tanners and tinware makers.....	54,685	53,793	892	40,749	40,025	724	23,927	23,666	261
213 Tobacco and cigar factory operatives.....	94,176	70,718	23,458	59,080	42,746	16,334	30,050	22,468	7,582
214 Tool and cutlery makers (not otherwise classified) (a)	17,870	17,335	535	11,438	11,022	416	6,821	6,658	163
215 Trunk, valise, leather-case, and pocket-book makers.....	6,208	5,388	820	4,078	3,382	696	1,517	1,300	217
216 Umbrella and parasol makers.....	3,396	1,458	1,938	2,670	1,003	1,667	1,053	452	601
217 Upholsterers.....	24,929	23,210	1,719	16,996	15,586	1,410	8,409	7,870	539
218 Well borers.....	4,768	4,767	1	4,176	4,175	1	3,342	3,341	1
219 Wheelwrights.....	12,457	12,456	1	9,391	9,390	1	7,683	7,682	1
220 Whitewashers.....	1,245	1,241	4	553	550	3	305	303	2
221 Wire workers.....	12,223	11,145	1,078	6,809	5,954	855	2,943	2,709	234
222 Wood workers (not otherwise specified).....	65,863	62,176	3,687	43,521	40,599	2,922	25,616	24,340	1,276
223 Woolen mill operatives (a).....	83,618	47,225	36,393	51,886	26,731	25,155	19,730	11,639	8,091
224 Other persons in manufacturing and mechanical industries.....	67,752	52,257	15,495	43,077	30,779	12,298	22,837	18,578	4,259

a See explanatory notes in Table 2.

OCCUPATIONS.

75

SPECIFIED OCCUPATION, CLASSIFIED BY SEX, GENERAL NATIVITY, AND COLOR: 1890—Continued.

NATIVE WHITE—FOREIGN PARENTS.			FOREIGN WHITE.			COLORED. (b)			PERSONS OF NEGRO DESCENT.		
Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
1,571	431	1,140	1,266	782	484	12	7	5	10	6	4
6,818	5,056	1,762	6,211	5,073	538	88	88	-----	66	66	-----
1,936	1,886	50	4,131	4,116	15	65	65	-----	59	59	-----
503	259	244	467	303	164	38	8	30	35	5	30
10,060	9,690	370	11,558	11,406	152	309	309	-----	295	295	-----
7,993	4,838	3,105	8,117	6,925	1,192	64	60	4	56	52	4
11,481	2,734	8,747	6,663	2,456	4,212	64	39	25	64	39	25
55,402	34,240	1,162	58,226	57,754	472	5,815	5,778	37	5,790	5,753	37
2,541	202	2,339	1,551	524	1,027	33	2	31	26	1	25
1,164	1,029	135	1,998	1,955	43	175	175	-----	173	173	-----
8,986	8,849	137	18,669	18,592	77	1,138	1,135	3	1,099	1,096	3
44,214	44,150	64	56,184	56,160	24	882	882	-----	838	838	-----
16,989	16,907	82	26,307	26,217	90	532	529	3	461	458	3
12,598	12,573	25	28,255	28,238	17	1,311	1,311	-----	1,279	1,279	-----
24,805	24,790	15	60,455	60,444	11	9,701	9,699	2	9,647	9,645	2
1,490	882	608	2,166	1,732	434	622	580	42	132	90	42
2,016	2,044	2	2,632	2,648	4	750	750	-----	746	746	-----
4,817	4,364	453	6,792	6,620	172	227	221	6	194	189	5
26,986	11,872	15,114	36,457	21,653	14,804	3,742	3,343	399	3,563	3,167	396
5,817	5,824	23	9,486	9,476	10	1,554	1,551	3	1,487	1,484	3
18,031	126	17,905	7,334	135	7,199	391	3	388	386	3	383
2,221	2,170	51	3,160	3,148	12	19	19	-----	18	18	-----
22,245	22,226	19	22,603	22,595	8	630	630	-----	630	630	-----
184	171	13	288	285	3	4	4	-----	2	2	-----
1,339	1,096	243	744	665	79	38	38	-----	36	36	-----
1,304	1,302	2	812	811	1	12	12	-----	12	12	-----
1,077	1,061	16	1,455	1,446	9	800	795	5	799	794	5
49,472	48,911	561	55,544	55,310	234	4,450	4,441	9	4,396	4,387	9
3,291	3,278	13	1,979	1,975	4	277	275	2	274	272	2
8,666	4,832	3,834	9,217	6,456	2,761	267	246	21	236	215	21
3,849	3,237	612	3,603	3,348	255	193	187	6	190	184	6
4,003	3,870	133	5,803	5,746	57	79	79	-----	71	71	-----
6,130	6,127	3	10,286	10,279	7	4,011	4,008	3	4,006	4,003	3
25,597	25,573	24	12,564	12,556	8	618	617	1	616	615	1
3,949	3,138	811	4,599	4,154	445	210	199	11	193	189	4
507	241	266	391	312	79	45	45	-----	3	3	-----
29,201	26,747	2,454	14,166	13,617	549	741	702	39	718	679	39
2,481	1,694	787	2,694	2,263	431	17	16	1	17	16	1
954	939	15	1,056	1,050	6	20	20	-----	20	20	-----
1,973	1,972	1	2,385	2,384	1	244	244	-----	243	243	-----
3,200	1,550	1,650	2,423	1,692	731	201	280	11	156	145	11
6,225	2,818	3,407	6,197	4,363	1,834	46	43	3	42	39	3
783	670	110	1,023	964	59	35	33	2	34	32	2
332	280	52	835	811	24	64	64	-----	60	60	-----
17,089	16,991	98	40,224	40,175	49	17,719	17,690	29	17,230	17,201	29
42,967	973	41,994	24,035	2,477	21,558	11,972	55	11,917	11,846	24	11,822
261	251	10	295	287	8	8	8	-----	8	8	-----
3,213	177	3,036	1,970	598	1,372	121	95	26	23	2	21
3,239	3,237	2	8,463	8,462	1	506	506	-----	462	461	-----
8,870	1,305	7,565	4,983	1,883	3,100	575	520	55	85	30	55
14,075	3,669	10,406	14,132	8,419	5,713	31	18	13	24	11	13
232	149	83	259	229	30	31	8	23	9	8	1
7,285	7,280	5	7,743	7,743	-----	157	157	-----	157	157	-----
3,033	3,028	5	2,526	2,524	2	183	183	-----	176	176	-----
1,201	284	917	371	171	200	9	8	1	8	7	1
351	351	-----	1,872	1,868	4	68	68	-----	67	67	-----
44,068	17,624	27,344	106,828	86,471	20,357	3,745	3,298	447	1,280	913	367
16,822	16,359	463	13,936	13,768	168	803	796	7	734	727	7
29,040	20,278	8,762	35,096	27,972	7,124	17,449	12,916	4,533	15,004	10,480	4,524
4,617	4,364	253	6,432	6,313	119	115	114	1	110	109	1
2,561	2,082	479	2,130	2,006	124	71	70	1	68	67	1
1,617	551	1,066	726	455	271	7	7	-----	5	5	-----
8,587	7,716	871	7,933	7,624	309	737	708	29	724	695	29
834	-----	-----	592	592	-----	86	86	-----	86	86	-----
1,708	1,708	-----	3,066	3,066	-----	399	399	-----	397	397	-----
248	247	1	692	691	1	2,751	2,746	5	2,748	2,743	5
3,866	3,245	621	5,414	5,191	223	96	93	3	95	92	3
17,905	16,259	1,646	22,342	21,577	765	1,497	1,424	73	1,375	1,303	72
32,156	15,092	17,064	31,732	20,494	11,238	491	413	78	346	268	78
20,240	12,201	8,039	24,675	21,478	3,197	8,962	8,549	413	8,602	8,200	402

b Persons of negro descent, Chinese, Japanese, and civilized Indians.

STATISTICS OF POPULATION.

TABLE 7.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH
ALL OCCUPATIONS.

	STATES AND TERRITORIES.	10 TO 14 YEARS.			15 TO 24 YEARS.			25 TO 34 YEARS.		
		Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
1	The United States.....	603, 013	400, 586	202, 427	6, 615, 318	4, 761, 853	1, 853, 460	5, 797, 484	4, 989, 814	807, 670
2	North Atlantic division.....	119, 235	78, 087	41, 148	2, 117, 786	1, 386, 495	731, 291	1, 776, 863	1, 450, 673	326, 190
3	Maine.....	2, 183	1, 322	861	67, 765	45, 797	21, 968	57, 752	47, 453	10, 299
4	New Hampshire.....	2, 386	1, 410	976	47, 212	29, 506	17, 646	37, 776	29, 083	8, 693
5	Vermont.....	1, 459	1, 004	455	34, 158	24, 429	9, 729	27, 775	23, 573	4, 202
6	Massachusetts.....	9, 716	5, 812	3, 904	309, 814	181, 386	128, 428	261, 563	191, 876	69, 687
7	Rhode Island.....	5, 477	3, 086	2, 391	51, 357	23, 602	21, 665	37, 977	28, 065	9, 912
8	Connecticut.....	4, 327	2, 634	1, 693	98, 882	61, 117	37, 765	78, 447	61, 975	16, 472
9	New York.....	36, 514	22, 441	14, 073	730, 829	467, 829	263, 000	631, 101	514, 937	116, 164
10	New Jersey.....	11, 531	7, 388	4, 143	176, 320	117, 174	59, 146	143, 392	120, 412	22, 980
11	Pennsylvania.....	45, 642	32, 990	12, 652	601, 440	429, 505	171, 944	501, 080	433, 299	67, 781
12	South Atlantic division.....	197, 300	128, 848	68, 452	950, 269	681, 476	268, 793	686, 569	561, 349	125, 220
13	Delaware.....	2, 051	1, 485	566	18, 790	14, 013	4, 777	15, 610	13, 443	2, 167
14	Maryland.....	11, 581	7, 547	4, 034	118, 780	82, 267	36, 513	91, 884	74, 476	17, 408
15	District of Columbia.....	1, 377	844	533	29, 421	17, 724	11, 697	24, 617	16, 754	7, 863
16	Virginia.....	26, 388	18, 515	7, 873	165, 764	123, 382	42, 382	117, 989	98, 636	19, 353
17	West Virginia.....	4, 624	3, 556	1, 068	64, 205	54, 404	9, 861	55, 406	51, 324	4, 082
18	North Carolina.....	41, 372	27, 704	13, 668	160, 764	116, 288	44, 476	111, 706	93, 188	18, 518
19	South Carolina.....	47, 355	28, 416	18, 939	141, 628	92, 654	48, 974	87, 986	66, 310	21, 676
20	Georgia.....	57, 374	37, 394	19, 980	212, 705	152, 051	60, 654	146, 937	118, 248	28, 689
21	Florida.....	5, 178	3, 387	1, 791	38, 152	28, 693	9, 459	34, 434	28, 970	5, 464
22	North Central division.....	87, 831	59, 311	28, 520	2, 170, 510	1, 631, 616	548, 894	2, 061, 319	1, 857, 179	204, 140
23	Ohio.....	14, 514	9, 702	4, 812	363, 568	267, 543	96, 025	323, 439	284, 045	38, 794
24	Indiana.....	7, 312	5, 087	2, 225	195, 760	154, 278	41, 482	185, 261	167, 655	17, 606
25	Illinois.....	18, 297	12, 016	6, 281	403, 193	293, 298	109, 895	376, 374	334, 253	42, 121
26	Michigan.....	7, 914	5, 353	2, 561	208, 039	154, 274	53, 765	196, 991	178, 215	18, 776
27	Wisconsin.....	7, 435	4, 617	2, 818	170, 121	120, 973	49, 148	150, 017	135, 350	14, 667
28	Minnesota.....	4, 460	2, 690	1, 770	135, 776	96, 683	39, 093	140, 960	126, 836	14, 124
29	Iowa.....	5, 819	4, 028	1, 791	179, 922	133, 912	46, 010	164, 657	149, 315	15, 342
30	Missouri.....	13, 204	9, 561	3, 643	249, 714	195, 049	54, 665	232, 783	210, 965	21, 818
31	North Dakota.....	736	490	246	17, 883	13, 390	4, 493	23, 628	21, 994	1, 634
32	South Dakota.....	1, 114	804	310	27, 241	20, 946	6, 295	35, 350	33, 077	2, 273
33	Nebraska.....	3, 599	2, 539	1, 060	103, 731	78, 593	25, 138	113, 869	103, 338	8, 531
34	Kansas.....	3, 427	2, 424	1, 003	115, 562	92, 677	22, 885	117, 990	109, 536	8, 454
35	South Central division.....	189, 748	127, 654	62, 094	1, 068, 744	820, 452	248, 292	853, 644	732, 879	120, 765
36	Kentucky.....	15, 722	11, 831	3, 891	167, 179	135, 080	32, 099	145, 389	128, 732	16, 657
37	Tennessee.....	23, 138	17, 309	5, 829	100, 984	131, 795	29, 189	128, 291	113, 787	14, 504
38	Alabama.....	47, 295	30, 320	16, 975	168, 734	119, 602	49, 132	116, 123	93, 821	22, 302
39	Mississippi.....	34, 203	21, 023	13, 180	145, 710	98, 049	47, 667	102, 211	78, 839	23, 372
40	Louisiana.....	31, 847	19, 829	12, 018	131, 627	91, 193	40, 434	90, 673	71, 590	19, 083
41	Texas.....	20, 506	15, 444	5, 062	193, 349	161, 654	31, 695	180, 579	164, 165	16, 414
42	Oklahoma.....	185	155	30	4, 228	3, 779	449	6, 440	6, 224	216
43	Arkansas.....	16, 852	11, 743	5, 109	96, 927	79, 300	17, 627	83, 938	75, 721	8, 217
44	Western division.....	8, 899	6, 686	2, 213	308, 009	251, 619	56, 190	419, 089	387, 734	31, 355
45	Montana.....	227	159	68	15, 440	13, 384	2, 056	28, 612	27, 196	1, 416
46	Wyoming.....	142	88	54	7, 888	6, 919	969	11, 739	11, 265	474
47	Colorado.....	1, 172	881	291	45, 285	37, 126	8, 159	68, 322	62, 590	5, 732
48	New Mexico.....	1, 383	1, 175	208	12, 825	11, 564	1, 261	14, 566	13, 743	823
49	Arizona.....	186	159	27	5, 355	4, 845	510	8, 390	7, 999	391
50	Utah.....	858	611	247	18, 669	14, 962	3, 707	19, 525	18, 297	1, 228
51	Nevada.....	67	53	14	4, 048	3, 325	723	5, 887	5, 486	401
52	Idaho.....	190	150	40	7, 292	6, 404	888	10, 927	10, 505	422
53	Washington.....	707	489	218	38, 146	32, 776	5, 370	60, 914	57, 840	3, 074
54	Oregon.....	732	542	190	29, 308	23, 728	5, 580	38, 394	35, 907	2, 487
55	California.....	3, 235	2, 379	856	123, 753	96, 786	26, 967	151, 813	136, 906	14, 907

CLASS OF OCCUPATIONS, CLASSIFIED BY SEX AND AGE PERIODS, BY STATES AND TERRITORIES: 1890.

ALL OCCUPATIONS.

85 TO 44 YEARS.			45 TO 54 YEARS.			55 TO 64 YEARS.			65 YEARS AND OVER.			AGE UNKNOWN.			
Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	
4,067,423	3,626,356	441,067	2,851,822	2,538,459	313,363	1,695,002	1,514,615	180,387	1,009,053	910,895	98,158	96,546	78,507	18,039	1
1,220,512	1,069,358	151,154	868,128	773,411	94,717	519,383	467,628	51,755	325,345	298,386	26,959	24,208	19,003	5,205	2
44,641	39,824	4,817	35,869	32,518	3,351	26,185	24,056	2,129	21,453	20,013	1,440	1,248	1,050	198	3
27,234	23,138	4,096	21,058	18,431	2,627	15,494	13,927	1,567	12,769	11,701	1,068	774	589	183	4
22,495	20,358	2,137	18,221	16,638	1,583	12,941	11,923	1,018	11,235	10,467	768	487	412	75	5
169,526	138,870	30,656	118,283	100,982	17,301	68,665	60,202	8,463	41,008	37,216	3,792	3,869	2,822	1,047	6
26,182	21,765	4,417	18,388	15,932	2,456	10,110	8,918	1,192	5,995	5,409	586	392	297	95	7
52,546	45,686	6,860	39,638	35,278	4,360	24,666	22,097	2,569	17,199	15,827	1,372	1,309	1,020	289	8
431,497	376,169	55,328	304,146	269,067	35,079	183,051	164,090	18,961	111,568	102,042	9,526	7,019	5,210	1,809	9
100,742	89,612	11,130	73,654	66,215	7,439	40,490	36,481	4,009	22,729	20,622	2,107	1,880	1,563	317	10
345,649	313,936	31,713	238,871	218,350	20,521	137,781	125,934	11,847	81,389	75,089	6,300	7,230	6,040	1,100	11
534,190	442,408	91,782	368,464	300,807	67,657	219,045	181,735	37,910	147,953	125,168	22,785	13,666	9,996	3,670	12
11,420	10,286	1,134	8,194	7,365	829	4,809	4,407	492	3,031	2,712	319	291	227	64	13
69,480	58,228	11,252	51,441	43,389	8,052	29,838	25,379	4,459	18,054	15,507	2,547	2,209	1,722	487	14
19,298	13,593	5,705	15,020	11,351	3,669	7,245	5,627	1,618	3,373	2,639	734	768	460	308	15
97,747	83,083	14,664	68,073	57,046	11,027	42,487	36,092	6,395	31,035	26,968	4,067	2,356	1,751	605	16
40,623	38,280	2,343	28,245	26,297	1,948	17,327	15,951	1,376	11,869	10,994	875	1,429	1,266	163	17
88,652	74,228	14,424	63,525	51,972	11,553	40,537	33,186	7,351	28,848	24,129	4,719	1,659	1,476	483	18
70,380	53,651	16,729	45,740	33,737	12,003	27,335	20,812	6,523	19,159	15,028	4,131	1,271	815	450	19
111,113	89,672	21,441	70,124	54,626	15,498	40,859	32,636	8,223	27,169	22,594	4,575	2,432	1,569	863	20
25,477	21,378	4,099	18,102	15,024	3,078	9,118	7,645	1,473	5,415	4,597	818	951	710	241	21
1,395,098	1,304,899	90,199	987,501	919,473	68,028	603,788	558,601	45,187	342,586	318,655	23,931	25,205	21,415	3,790	22
232,258	214,176	18,082	163,220	150,561	12,659	104,144	96,104	8,040	67,581	62,478	5,103	4,082	3,400	683	23
134,779	126,073	8,706	97,796	90,922	6,874	62,673	57,846	4,827	38,006	35,210	2,796	2,471	2,085	386	24
239,553	222,454	17,099	165,349	152,860	12,489	97,907	90,053	7,854	49,766	45,824	3,942	3,120	2,491	629	25
141,284	133,108	8,176	102,047	95,912	6,135	62,619	58,053	3,966	37,988	35,817	2,171	2,693	2,295	398	26
98,208	92,882	5,326	68,582	64,623	3,959	47,833	44,779	3,054	32,292	30,500	1,792	1,802	1,505	297	27
82,167	77,619	4,548	53,374	50,440	2,934	33,237	31,289	1,948	16,774	15,903	871	2,338	2,001	337	28
109,261	103,190	6,071	84,754	79,637	5,117	54,883	50,982	3,901	21,188	20,165	2,023	1,351	1,189	162	29
164,795	152,340	12,455	116,818	106,697	10,121	67,101	60,676	6,425	35,188	32,084	3,104	4,776	4,182	591	30
13,426	12,786	640	6,670	6,254	416	3,604	3,363	241	1,611	1,496	115	213	183	30	31
23,711	22,063	1,648	14,294	13,511	783	8,140	7,657	483	3,785	3,578	207	458	399	59	32
69,916	66,528	3,388	43,710	41,358	2,352	22,394	20,892	1,502	9,861	9,292	569	980	876	104	33
85,760	81,080	4,680	70,887	66,698	4,189	39,253	36,307	2,946	18,546	17,308	1,238	921	869	112	34
639,336	547,269	92,067	455,853	383,403	72,450	253,179	213,094	40,085	153,612	131,253	22,359	21,098	17,041	4,057	35
106,864	95,615	11,249	75,466	66,311	9,155	45,847	40,065	5,782	30,440	26,711	3,729	3,417	2,601	816	36
95,264	83,770	11,494	72,585	63,069	9,516	42,801	37,092	5,709	26,878	23,304	3,574	3,812	3,045	767	37
82,352	63,571	18,781	67,238	54,097	13,141	34,599	27,625	6,974	22,716	18,675	4,041	2,545	1,916	629	38
78,381	61,337	17,044	47,674	35,220	12,454	32,341	25,700	6,641	20,078	16,428	3,650	2,135	1,335	800	39
71,686	56,817	15,369	50,490	38,836	11,654	28,363	22,002	6,361	16,978	13,456	3,522	1,410	1,070	340	40
135,478	122,413	13,065	91,096	80,420	10,676	45,092	39,387	5,705	24,138	21,581	2,557	5,970	5,129	841	41
4,636	4,502	134	3,274	3,148	126	1,518	1,447	71	520	493	27	105	101	4	42
64,675	57,744	6,931	48,030	42,302	5,728	22,618	19,776	2,842	11,864	10,605	1,259	2,304	1,844	460	43
278,287	262,422	15,865	171,876	161,365	10,511	99,007	93,557	5,450	39,557	37,433	2,124	11,769	11,052	717	44
14,592	14,029	563	8,390	8,098	292	3,086	2,957	129	887	855	32	989	909	80	45
6,520	6,320	200	2,943	2,816	127	1,004	956	48	324	314	10	70	58	12	46
41,532	38,799	2,733	21,862	20,478	1,384	8,727	8,144	583	2,957	2,784	173	2,086	1,994	92	47
11,623	10,927	696	7,559	7,041	518	4,153	3,878	275	1,910	1,765	145	1,32	121	8	48
6,251	5,946	305	3,733	3,527	206	1,853	1,760	93	594	564	30	54	47	7	49
12,093	11,410	683	7,052	7,086	566	4,718	4,349	369	3,117	2,860	257	269	250	19	50
5,663	5,382	281	4,418	4,201	217	2,418	2,311	107	741	704	37	173	129	44	51
7,701	7,464	237	5,062	4,886	176	2,871	2,773	98	945	923	22	184	173	11	52
33,836	32,623	1,213	18,222	17,499	723	8,480	8,134	346	2,912	2,795	117	1,479	1,425	54	53
25,978	24,870	1,099	16,844	16,094	750	10,138	9,673	465	4,473	4,274	199	914	891	23	54
112,498	104,643	7,855	75,191	69,639	5,552	51,559	48,622	2,937	20,697	19,595	1,102	5,419	5,052	367	55

STATISTICS OF POPULATION.

TABLE 7.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH AGRICULTURE, FISHERIES, AND MINING.

	STATES AND TERRITORIES.	10 TO 14 YEARS.			15 TO 24 YEARS.			25 TO 34 YEARS.		
		Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
1	The United States	339,947	256,130	83,817	2,317,348	2,103,220	214,128	2,044,747	1,953,651	91,096
2	North Atlantic division	20,850	20,575	275	272,888	270,982	1,906	258,194	257,008	1,186
3	Maine	364	359	5	15,115	15,037	78	15,027	14,970	57
4	New Hampshire	337	334	3	7,083	7,055	28	6,927	6,899	28
5	Vermont	591	590	1	11,965	11,919	46	10,048	10,011	37
6	Massachusetts	503	500	3	16,284	16,188	96	15,862	15,792	70
7	Rhode Island	104	100	4	2,527	2,502	25	2,342	2,325	17
8	Connecticut	524	522	2	9,234	9,185	49	8,729	8,691	38
9	New York	3,770	3,717	53	84,846	84,253	593	81,991	81,525	466
10	New Jersey	1,393	1,372	21	17,271	17,140	131	15,479	15,401	78
11	Pennsylvania	13,264	13,081	183	108,563	107,703	860	101,789	101,394	395
12	South Atlantic division	139,754	100,236	39,518	502,560	414,415	88,154	344,795	308,327	36,468
13	Delaware	806	795	11	4,080	4,028	52	3,855	3,835	20
14	Maryland	3,342	3,222	120	29,691	29,170	521	21,709	21,499	210
15	District of Columbia	46	41	5	440	433	7	367	359	8
16	Virginia	13,700	12,353	1,347	73,584	68,436	5,148	52,939	50,992	1,947
17	West Virginia	2,612	2,482	130	32,790	32,467	323	30,724	30,481	243
18	North Carolina	31,103	23,235	7,868	108,658	87,369	21,289	73,668	66,290	7,378
19	South Carolina	40,028	24,990	15,038	106,708	72,298	34,410	61,828	48,078	13,750
20	Georgia	44,704	30,725	13,979	128,425	105,563	22,862	84,960	73,607	11,353
21	Florida	3,413	2,393	1,020	17,293	13,751	3,542	14,745	13,186	1,559
22	North Central division	26,487	25,965	522	767,273	761,897	5,376	799,814	795,428	4,386
23	Ohio	2,799	2,762	37	95,471	94,786	685	97,689	97,232	457
24	Indiana	2,431	2,395	36	77,542	77,048	494	79,074	78,686	388
25	Illinois	3,885	3,804	81	119,127	118,342	785	116,479	115,879	600
26	Michigan	2,026	1,973	53	66,907	66,443	464	72,311	71,995	316
27	Wisconsin	1,946	1,899	47	55,575	55,084	511	55,660	55,328	332
28	Minnesota	1,605	1,556	49	46,839	46,410	429	49,204	48,915	289
29	Iowa	2,586	2,554	32	81,859	81,397	462	83,183	82,810	373
30	Missouri	4,811	4,703	108	100,010	99,292	718	99,072	98,396	676
31	North Dakota	445	435	10	9,848	9,738	110	15,167	15,052	115
32	South Dakota	603	670	23	14,007	13,888	119	21,185	21,030	155
33	Nebraska	1,446	1,423	23	40,293	40,042	251	47,520	47,239	281
34	Kansas	1,814	1,791	23	59,775	59,427	348	63,270	62,866	404
35	South Central division	150,094	106,650	43,444	686,782	508,717	118,065	516,901	468,553	48,348
36	Kentucky	7,991	7,065	326	84,757	83,501	1,256	77,442	76,606	836
37	Tennessee	16,365	13,561	2,804	94,667	87,759	6,908	72,653	70,131	2,522
38	Alabama	40,143	26,678	13,465	118,555	86,586	31,969	75,697	63,032	12,665
39	Mississippi	29,876	18,974	10,902	114,789	79,518	35,271	76,767	60,945	15,822
40	Louisiana	25,507	16,392	9,115	77,251	55,268	21,983	47,580	39,174	8,416
41	Texas	15,424	12,581	2,843	121,763	110,719	11,044	104,307	99,570	4,737
42	Oklahoma	119	115	4	2,712	2,659	53	4,164	4,111	53
43	Arkansas	14,669	10,684	3,985	72,288	62,707	9,581	58,881	54,984	3,897
44	Western division	2,762	2,704	58	87,836	87,209	627	125,043	124,335	708
45	Montana	57	56	1	4,305	4,301	4	9,426	9,396	30
46	Wyoming	36	36	0	2,666	2,661	5	4,234	4,222	12
47	Colorado	367	362	5	11,984	11,926	58	19,297	19,202	95
48	New Mexico	840	824	16	6,153	6,109	44	6,480	6,447	33
49	Arizona	78	77	1	1,836	1,821	15	3,025	3,017	8
50	Utah	262	258	4	5,892	5,844	48	6,092	6,042	50
51	Nevada	36	36	0	1,667	1,655	12	2,580	2,568	12
52	Idaho	93	90	3	3,360	3,340	20	5,363	5,333	30
53	Washington	155	152	3	9,212	9,143	69	14,907	14,822	85
54	Oregon	255	249	6	10,067	9,976	91	13,386	13,310	76
55	California	581	562	19	30,694	30,433	261	40,253	39,976	277

OCCUPATIONS.

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CLASS OF OCCUPATIONS, CLASSIFIED BY SEX AND AGE PERIODS, BY STATES AND TERRITORIES: 1890—Continued.

AGRICULTURE, FISHERIES, AND MINING.

35 to 44 YEARS.			45 to 54 YEARS.			55 to 64 YEARS.			65 YEARS AND OVER.			AGE UNKNOWN.			
Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	
1,605,715	1,518,619	87,096	1,246,545	1,154,085	92,460	847,138	779,175	67,963	586,713	545,966	40,747	25,183	22,967	2,216	1
220,933	218,801	2,132	194,294	189,737	4,557	155,678	150,185	5,493	139,323	134,012	5,311	3,830	3,802	28	2
14,881	14,718	163	14,512	14,190	322	12,814	12,394	420	13,410	12,991	419	173	172	1	3
6,955	6,900	55	6,904	6,879	115	6,830	6,665	165	7,746	7,520	226	110	108	2	4
9,564	9,484	80	8,998	8,861	137	7,305	7,146	159	7,534	7,345	189	178	178	.....	5
12,701	12,615	86	12,083	11,874	189	11,025	10,800	225	11,988	11,721	267	654	653	1	6
2,098	2,085	13	1,956	1,925	31	1,688	1,651	37	1,814	1,787	57	47	47	.....	7
7,826	7,763	63	7,682	7,521	161	6,937	6,738	199	7,577	7,322	255	167	167	.....	8
71,589	70,670	919	63,897	61,901	1,996	54,699	52,306	2,393	48,431	46,258	2,173	909	899	10	9
12,669	12,533	136	11,927	11,633	294	8,712	8,374	338	7,171	6,759	412	267	265	2	10
82,650	82,033	617	66,245	64,933	1,312	45,628	44,111	1,517	33,622	32,309	1,313	1,325	1,313	12	11
288,037	257,892	30,145	204,207	178,263	25,944	132,013	115,566	16,447	98,439	88,350	10,089	4,504	3,783	721	12
3,252	3,213	39	2,557	2,492	65	1,883	1,813	70	1,310	1,261	49	59	58	1	13
18,055	17,678	377	15,137	14,572	565	9,832	9,341	491	6,913	6,561	352	717	626	91	14
321	314	7	320	307	13	212	203	9	168	160	8	12	12	.....	15
49,475	47,301	2,174	35,996	33,389	2,607	24,893	22,854	2,039	20,478	19,040	1,438	680	644	36	16
24,551	24,070	481	18,216	17,390	826	11,939	11,184	755	8,641	8,154	487	414	403	11	17
61,716	55,370	6,346	45,179	39,362	5,817	30,370	26,202	4,168	22,863	20,202	2,661	802	681	121	18
50,502	39,954	10,548	33,151	25,421	7,730	20,306	16,131	4,172	14,819	12,248	2,571	675	444	231	19
67,806	59,000	8,806	44,157	37,089	7,068	27,471	23,349	4,122	19,754	17,598	2,156	851	670	181	20
12,359	10,992	1,367	9,494	8,241	1,253	5,107	4,486	621	3,493	3,126	367	294	245	49	21
599,828	588,571	11,257	482,096	459,569	22,527	340,027	317,202	22,825	217,460	204,221	13,239	6,118	5,986	138	22
79,774	78,666	1,108	64,152	61,686	2,466	49,584	46,634	2,950	38,723	36,228	2,495	827	812	15	23
61,909	60,438	1,071	49,504	47,206	2,298	35,070	32,641	2,429	24,417	22,805	1,612	622	602	20	24
80,803	79,164	1,639	63,370	59,585	3,785	45,559	41,671	3,888	26,760	24,623	2,137	505	491	14	25
58,289	57,505	784	48,513	46,864	1,679	35,144	33,456	1,688	24,469	23,357	1,112	812	805	7	26
42,329	41,585	744	35,176	33,652	1,524	28,962	27,235	1,727	21,985	20,949	1,036	446	436	10	27
34,719	34,117	602	28,955	27,946	1,009	21,639	20,633	1,006	11,996	11,562	434	465	457	8	28
57,165	56,101	1,064	48,864	46,555	2,309	35,109	32,578	2,531	21,256	19,941	1,315	368	360	8	29
78,167	76,159	2,008	59,685	55,934	3,751	38,516	35,116	3,400	23,139	21,412	1,727	1,265	1,233	32	30
9,245	9,065	180	4,938	4,745	193	2,887	2,741	146	1,329	1,262	67	96	93	3	31
15,817	15,040	277	10,153	9,771	382	6,280	5,973	307	3,055	2,912	143	149	145	4	32
33,684	33,054	630	25,405	24,423	1,072	14,863	14,004	859	7,042	6,706	336	231	226	5	33
48,427	47,277	1,150	43,261	41,202	2,059	26,414	24,520	1,894	13,289	12,464	825	332	320	12	34
403,325	361,023	42,302	298,638	261,141	37,497	172,884	151,271	21,613	110,894	99,506	11,388	7,686	6,421	1,265	35
60,762	58,871	1,891	44,302	41,309	2,993	28,915	26,279	2,636	21,052	19,156	1,896	864	825	39	36
56,686	53,665	3,021	46,253	42,454	3,799	29,152	26,361	2,791	19,831	17,984	1,847	1,279	1,155	124	37
55,883	46,508	9,375	47,976	40,200	7,776	25,121	21,080	4,041	17,308	15,111	2,197	769	606	163	38
59,894	48,147	11,747	36,078	27,589	8,489	25,292	20,843	4,449	15,997	13,797	2,200	1,356	871	485	39
38,366	31,456	6,910	26,778	21,601	5,177	15,147	12,577	2,570	9,409	8,209	1,200	682	589	93	40
81,938	76,640	5,298	59,002	53,461	5,541	30,852	27,630	3,222	17,458	16,145	1,313	1,574	1,394	180	41
3,071	3,023	48	2,278	2,202	76	1,086	1,032	54	414	394	20	84	81	3	42
46,725	42,713	4,012	35,971	32,265	3,706	17,319	15,469	1,850	9,425	8,710	715	1,078	900	178	43
93,592	92,332	1,260	67,310	65,375	1,935	46,576	44,951	1,625	20,597	19,877	720	3,045	2,981	64	44
5,661	5,611	50	3,901	3,853	48	1,677	1,628	49	490	477	13	263	262	1	45
2,371	2,350	15	1,211	1,185	26	484	471	13	179	177	2	18	18	.....	46
13,432	13,288	144	8,324	8,115	209	3,743	3,617	126	1,432	1,377	55	664	661	3	47
5,540	5,464	76	3,966	3,861	105	2,355	2,270	85	1,233	1,171	62	44	44	.....	48
2,572	2,551	21	1,746	1,715	31	945	928	17	308	300	8	18	18	.....	49
4,476	4,363	113	3,303	3,148	155	2,276	2,149	127	1,656	1,580	76	126	126	.....	50
2,507	2,483	24	2,187	2,169	18	1,095	1,070	25	309	307	2	155	116	39	51
4,220	4,183	37	3,162	3,099	63	1,855	1,819	36	665	653	12	96	95	1	52
10,512	10,391	121	6,998	6,816	182	4,204	4,076	128	1,735	1,677	58	220	214	6	53
10,209	10,060	149	7,972	7,738	234	5,978	5,744	234	2,946	2,837	109	167	166	1	54
32,092	31,582	510	24,540	23,676	864	21,964	21,179	785	9,644	9,321	323	1,274	1,261	13	55

STATISTICS OF POPULATION.

TABLE 7.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH PROFESSIONAL SERVICE.

	STATES AND TERRITORIES.	10 TO 14 YEARS.			15 TO 24 YEARS.			25 TO 34 YEARS.		
		Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
1	The United States.....	908	462	446	254,975	90,997	163,978	276,993	185,535	91,458
2	North Atlantic division.....	322	175	147	76,412	27,300	49,112	88,833	55,274	33,559
3	Maine.....	16	2	14	4,481	733	3,748	3,246	1,525	1,721
4	New Hampshire.....	7	3	7	2,001	361	1,640	1,935	939	996
5	Vermont.....	3	3	3	2,272	308	1,964	1,578	734	844
6	Massachusetts.....	19	8	11	9,211	3,442	5,769	13,528	7,473	6,055
7	Rhode Island.....	7	4	3	1,213	468	745	1,597	974	623
8	Connecticut.....	9	4	5	3,057	895	2,162	3,727	2,073	1,654
9	New York.....	155	96	59	28,859	10,555	18,304	34,715	22,747	11,968
10	New Jersey.....	38	23	15	4,907	2,091	2,816	6,472	4,214	2,258
11	Pennsylvania.....	68	38	30	20,411	8,447	11,964	22,035	14,595	7,440
12	South Atlantic division.....	65	27	38	22,113	9,274	12,839	25,174	18,194	6,980
13	Delaware.....				543	216	327	659	408	251
14	Maryland.....	14	8	6	3,265	1,362	1,903	3,942	2,621	1,321
15	District of Columbia.....	1	1		1,280	700	589	1,990	1,398	562
16	Virginia.....	11	4	7	4,659	1,660	2,999	4,623	3,061	1,562
17	West Virginia.....	4	2	2	2,686	1,376	1,310	2,498	1,873	625
18	North Carolina.....	12	5	7	2,909	1,146	1,763	3,551	2,693	858
19	South Carolina.....	7	2	5	1,909	731	1,178	2,170	1,638	532
20	Georgia.....	14	5	9	3,838	1,647	2,191	4,423	3,448	975
21	Florida.....	2		2	1,015	427	588	1,348	1,054	294
22	North Central division.....	333	162	171	115,666	36,352	79,314	109,041	71,023	38,018
23	Ohio.....	51	23	28	17,954	7,527	10,427	18,535	12,301	6,234
24	Indiana.....	39	7	32	9,407	3,974	5,493	10,122	6,813	3,309
25	Illinois.....	87	64	23	18,277	6,312	11,965	19,171	12,311	6,860
26	Michigan.....	30	12	18	10,661	2,821	7,840	9,309	5,817	3,492
27	Wisconsin.....	6	4	2	8,595	1,981	6,614	7,024	4,095	2,929
28	Minnesota.....	18	9	9	7,593	2,176	5,417	7,415	5,025	2,390
29	Iowa.....	31	9	22	13,677	2,870	12,807	9,921	5,412	4,509
30	Missouri.....	38	19	19	10,348	3,976	6,372	11,300	7,959	3,341
31	North Dakota.....	1	1		1,060	296	764	1,000	733	267
32	South Dakota.....	1		1	1,991	452	1,539	1,815	1,227	588
33	Nebraska.....	17	8	9	6,389	1,728	4,661	6,233	4,340	1,893
34	Kansas.....	14	6	8	7,654	2,239	5,415	7,196	4,990	2,206
35	South Central division.....	110	53	57	26,517	11,898	14,619	32,234	25,181	7,053
36	Kentucky.....	38	24	14	5,712	2,538	3,174	6,226	4,499	1,727
37	Tennessee.....	21	12	9	4,716	2,171	2,545	5,489	4,333	1,156
38	Alabama.....	8	4	4	2,759	1,318	1,441	3,354	2,634	720
39	Mississippi.....	4	1	3	3,042	1,095	1,947	2,852	2,086	766
40	Louisiana.....	6	4	2	1,981	918	1,063	2,636	1,881	755
41	Texas.....	22	3	19	6,035	2,767	3,268	8,335	6,926	1,409
42	Oklahoma.....	2		2	177	67	110	309	269	40
43	Arkansas.....	9	5	4	2,095	1,024	1,071	3,033	2,553	480
44	Western division.....	78	45	33	14,267	6,173	8,094	21,711	15,863	5,848
45	Montana.....	4	4		605	316	289	1,091	905	186
46	Wyoming.....	4	4		290	168	122	455	373	82
47	Colorado.....	11	8	3	1,977	918	1,059	3,444	2,589	855
48	New Mexico.....	2	1	1	277	131	146	515	416	99
49	Arizona.....				144	75	69	347	284	63
50	Utah.....	8	2	6	674	321	353	987	779	208
51	Nevada.....	2	2		285	87	198	244	167	77
52	Idaho.....				293	128	165	423	350	73
53	Washington.....	7	2	5	1,821	963	858	3,180	2,671	509
54	Oregon.....	15	6	9	1,865	753	1,112	2,130	1,563	567
55	California.....	25	16	9	6,036	2,313	3,723	8,895	5,766	3,129

CLASS OF OCCUPATIONS, CLASSIFIED BY SEX AND AGE PERIODS, BY STATES AND TERRITORIES: 1890—Continued.

PROFESSIONAL SERVICE.

35 TO 44 YEARS.			45 TO 54 YEARS.			55 TO 64 YEARS.			65 YEARS AND OVER.			AGE UNKNOWN.			
Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	
179,700	147,757	31,943	121,799	106,210	15,589	66,694	61,464	5,230	39,165	37,430	1,735	4,099	2,791	1,308	I
58,252	44,693	13,559	39,830	33,038	6,792	21,367	19,041	2,326	13,295	12,583	712	1,157	693	464	2
1,846	1,862	484	1,355	1,119	236	788	600	92	582	542	40	50	28	22	3
1,126	756	370	834	639	195	529	469	60	374	349	25	25	16	9	4
931	696	235	733	597	136	439	392	47	304	291	10	19	11	8	5
8,889	6,062	2,827	6,110	4,583	1,527	3,246	2,723	523	2,008	1,849	159	236	108	128	6
1,192	853	339	775	575	200	379	311	68	269	254	15	14	8	8	7
2,426	1,786	640	1,673	1,322	351	933	807	126	618	593	25	42	29	13	8
22,797	17,961	4,836	15,311	12,865	2,446	8,160	7,309	851	4,982	4,710	272	397	241	156	9
4,829	3,799	1,030	3,305	2,887	418	1,693	1,548	145	1,030	991	39	89	47	42	10
14,216	11,418	2,798	9,734	8,451	1,283	5,200	4,786	414	3,131	3,004	127	285	205	80	11
18,163	15,247	2,916	13,564	11,789	1,775	8,141	7,479	662	4,723	4,475	248	418	306	112	12
423	344	79	290	258	32	161	155	6	123	117	6	14	7	7	13
2,956	2,314	642	2,339	1,975	364	1,276	1,139	137	744	698	46	40	27	13	14
1,443	1,202	241	1,402	1,256	146	764	710	54	408	389	19	41	33	8	15
3,216	2,648	568	2,524	2,147	377	1,642	1,492	150	964	906	58	56	38	18	16
1,508	1,315	193	986	902	84	539	507	32	304	382	12	47	40	7	17
2,391	2,054	337	1,684	1,461	223	1,052	970	82	625	579	46	72	63	9	18
1,708	1,467	241	1,126	962	164	803	731	72	433	409	24	37	30	7	19
3,326	2,875	451	2,195	1,915	280	1,348	1,259	89	747	717	30	78	41	37	20
1,192	1,028	164	1,018	913	105	556	516	40	285	278	7	33	27	6	21
65,432	54,925	10,507	43,054	38,736	4,318	22,872	21,538	1,334	13,530	13,073	457	1,419	921	498	22
11,336	9,246	2,090	7,315	6,371	944	3,845	3,594	251	2,663	2,571	92	214	150	64	23
6,482	5,503	979	4,382	4,008	374	2,445	2,303	142	1,447	1,404	43	135	92	43	24
11,186	9,291	1,895	7,599	6,793	806	4,140	3,906	234	2,462	2,384	78	200	115	85	25
5,817	4,802	1,015	4,018	3,604	414	2,134	2,000	134	1,305	1,258	47	216	131	85	26
3,846	3,107	739	2,326	2,049	277	1,402	1,305	97	953	927	26	126	77	49	27
3,871	3,293	578	2,178	1,991	187	1,067	1,002	65	506	492	14	119	72	47	28
5,292	4,352	940	3,544	3,205	339	2,025	1,920	105	1,209	1,160	49	63	34	29	29
7,755	6,715	1,040	5,386	4,909	477	2,894	2,743	151	1,547	1,489	58	197	153	44	30
571	523	48	263	240	23	101	98	3	47	45	2	15	9	6	31
1,183	1,011	152	604	538	66	263	249	14	124	119	5	34	17	17	32
3,535	3,101	434	2,006	1,852	154	862	799	63	437	421	16	60	45	15	33
4,578	3,981	597	3,433	3,176	257	1,694	1,619	75	830	803	27	40	26	14	34
23,664	20,698	2,966	16,309	14,579	1,730	9,417	8,830	587	5,311	5,104	207	701	571	130	35
4,189	3,561	628	3,022	2,724	298	1,720	1,614	106	1,104	1,065	39	139	110	29	36
3,879	3,458	421	2,723	2,508	215	1,588	1,512	76	952	915	37	82	74	8	37
2,387	2,070	317	1,709	1,519	190	1,038	971	67	617	595	22	80	69	11	38
2,152	1,863	289	1,407	1,217	190	864	814	50	461	466	15	60	45	15	39
2,228	1,735	493	1,695	1,352	343	932	806	126	515	473	42	33	27	6	40
6,174	5,558	616	3,903	3,523	380	2,246	2,123	123	1,186	1,149	37	222	177	45	41
247	232	15	187	181	6	73	72	1	20	20	-----	2	2	-----	42
2,408	2,221	187	1,663	1,555	108	956	918	38	436	421	15	83	67	16	43
14,189	12,104	1,995	9,042	8,068	974	4,897	4,576	321	2,306	2,195	111	404	300	104	44
593	531	62	383	351	32	110	99	11	41	40	1	73	48	25	45
256	229	27	134	119	15	42	39	3	17	17	-----	5	4	1	46
2,407	2,115	292	1,212	1,097	115	523	491	32	203	195	8	53	45	8	47
411	372	39	313	283	30	148	141	7	40	36	4	6	6	-----	48
265	249	16	185	174	11	110	106	4	37	34	3	7	6	1	49
528	456	72	362	323	39	184	166	18	95	83	12	5	5	-----	50
193	160	33	170	150	20	114	112	2	49	49	-----	3	3	-----	51
274	241	33	161	147	14	101	97	4	35	35	-----	8	6	-----	52
1,712	1,563	149	889	824	65	410	396	14	148	144	4	47	35	12	53
1,366	1,214	152	870	807	63	444	433	11	221	216	5	15	15	-----	54
6,184	5,064	1,120	4,363	3,793	570	2,711	2,496	215	1,420	1,346	74	182	127	55	55

STATISTICS OF POPULATION.

TABLE 7.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH DOMESTIC AND PERSONAL SERVICE.

	STATES AND TERRITORIES.	10 TO 14 YEARS.			15 TO 24 YEARS.			25 TO 34 YEARS.		
		Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
1	The United States.....	128,008	50,497	77,511	1,498,413	709,066	789,347	1,118,334	781,672	336,662
2	North Atlantic division.....	27,945	11,152	16,793	500,650	230,603	270,047	396,710	268,347	128,363
3	Maine.....	451	172	279	13,714	7,330	6,384	9,750	7,021	2,729
4	New Hampshire.....	289	130	159	6,863	3,471	3,392	5,568	3,670	1,898
5	Vermont.....	500	146	354	8,271	3,214	5,057	4,727	2,860	1,867
6	Massachusetts.....	1,077	343	734	56,158	20,572	35,586	50,354	27,390	22,964
7	Rhode Island.....	316	171	145	8,068	3,946	4,122	7,538	4,509	2,939
8	Connecticut.....	859	336	523	19,029	8,208	10,821	15,537	9,653	5,884
9	New York.....	8,552	2,835	5,717	177,752	70,932	106,820	150,572	98,381	52,191
10	New Jersey.....	3,084	1,027	2,057	40,824	18,552	22,272	32,555	22,442	10,113
11	Pennsylvania.....	12,817	5,992	6,825	169,971	94,378	75,593	120,109	92,331	27,778
12	South Atlantic division.....	37,578	14,697	22,681	207,218	88,343	120,875	128,810	69,308	59,502
13	Delaware.....	756	297	459	5,325	2,780	2,545	3,766	2,666	1,100
14	Maryland.....	4,273	1,599	2,674	32,738	13,642	19,096	23,190	13,583	9,607
15	District of Columbia.....	737	275	462	12,121	4,974	7,147	9,459	4,713	4,746
16	Virginia.....	9,610	3,712	5,898	46,604	19,225	27,379	25,690	13,425	12,265
17	West Virginia.....	1,364	494	870	13,149	6,870	6,279	6,986	4,909	2,077
18	North Carolina.....	6,319	2,212	4,107	24,485	9,403	15,082	14,504	6,708	7,796
19	South Carolina.....	4,580	1,893	2,687	16,153	6,986	9,167	10,880	5,103	5,777
20	Georgia.....	8,684	3,859	4,825	46,037	16,062	29,975	25,700	12,431	13,269
21	Florida.....	1,255	556	699	10,606	6,401	4,205	8,635	5,770	2,865
22	North Central division.....	30,036	10,057	19,979	523,853	230,932	283,921	356,429	272,292	84,137
23	Ohio.....	4,642	1,893	2,749	93,242	47,521	45,721	62,987	47,690	15,297
24	Indiana.....	2,805	1,082	1,723	47,939	25,357	22,582	31,183	21,398	6,785
25	Illinois.....	5,375	1,833	3,542	96,081	41,641	54,440	72,959	54,380	18,579
26	Michigan.....	3,085	1,157	1,928	56,577	28,333	28,244	39,092	31,721	7,371
27	Wisconsin.....	2,836	781	2,055	44,903	18,548	26,355	28,147	22,526	5,621
28	Minnesota.....	1,950	372	1,578	38,789	15,068	23,721	28,536	21,639	6,897
29	Iowa.....	2,160	562	1,598	36,159	14,364	21,795	19,011	14,660	4,951
30	Missouri.....	4,075	1,580	2,495	53,667	24,492	29,175	36,839	26,266	10,573
31	North Dakota.....	265	86	229	4,303	1,193	3,110	2,694	1,756	938
32	South Dakota.....	361	83	278	6,173	2,477	3,696	3,821	2,907	914
33	Nebraska.....	1,229	350	879	24,481	10,878	13,603	17,831	14,410	3,421
34	Kansas.....	1,253	328	925	21,539	10,060	11,479	12,729	9,939	2,790
35	South Central division.....	29,245	12,915	16,330	177,536	90,431	87,105	125,879	75,399	50,480
36	Kentucky.....	5,077	2,158	2,919	34,031	15,817	18,214	22,742	13,195	9,547
37	Tennessee.....	4,808	2,173	2,635	29,577	14,306	15,271	19,258	10,833	8,425
38	Alabama.....	5,196	2,259	2,937	24,860	12,278	12,582	16,509	8,596	7,913
39	Mississippi.....	3,612	1,507	2,105	15,984	7,149	8,835	11,071	5,182	5,889
40	Louisiana.....	4,916	2,315	2,601	27,629	15,255	12,374	19,886	12,420	7,466
41	Texas.....	3,809	1,764	2,045	32,388	18,629	13,759	26,796	18,797	7,999
42	Oklahoma.....	41	19	22	567	395	192	533	464	69
43	Arkansas.....	1,786	720	1,066	12,480	6,602	5,878	9,084	5,912	3,172
44	Western division.....	3,204	1,476	1,728	89,156	61,757	27,399	110,506	96,326	14,180
45	Montana.....	103	43	60	5,585	4,321	1,264	8,487	7,686	801
46	Wyoming.....	64	23	41	2,087	2,036	651	3,184	2,902	282
47	Colorado.....	376	161	215	12,628	8,162	4,466	15,512	12,599	2,913
48	New Mexico.....	458	295	163	4,500	3,708	792	4,790	4,248	542
49	Arizona.....	84	61	23	2,108	1,824	284	2,960	2,741	219
50	Utah.....	350	137	213	5,783	3,686	2,097	4,592	4,136	456
51	Nevada.....	21	7	14	968	634	334	1,460	1,275	194
52	Idaho.....	70	34	36	1,988	1,487	501	2,224	2,051	173
53	Washington.....	288	94	194	12,108	9,301	2,807	17,058	15,576	1,482
54	Oregon.....	236	75	161	7,430	4,748	2,682	8,900	8,000	900
55	California.....	1,154	546	608	33,371	21,850	11,521	41,330	35,112	6,218

OCCUPATIONS.

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CLASS OF OCCUPATIONS, CLASSIFIED BY SEX AND AGE PERIODS, BY STATES AND TERRITORIES: 1890—Continued.

DOMESTIC AND PERSONAL SERVICE.

35 TO 44 YEARS.			45 TO 54 YEARS.			55 TO 64 YEARS.			65 YEARS AND OVER.			AGE UNKNOWN.			
Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	
714,655	518,998	195,657	475,551	337,556	137,995	257,971	181,285	76,686	134,740	92,479	42,261	32,905	21,326	11,579	1
253,978	186,984	66,994	179,333	130,928	48,405	103,075	74,636	28,439	53,456	38,906	14,550	8,366	5,165	3,201	2
6,550	4,933	1,617	4,887	3,484	1,403	3,170	2,188	982	2,103	1,416	687	466	364	102	3
3,997	2,758	1,239	3,150	2,070	1,080	2,238	1,423	815	1,425	804	621	181	102	79	4
3,314	2,250	1,064	2,322	1,481	841	1,588	993	595	1,231	805	426	106	56	50	5
31,557	20,227	11,330	24,081	16,138	7,943	14,304	9,538	4,766	7,410	5,063	2,347	997	484	513	6
5,295	3,669	1,626	4,076	2,887	1,189	2,345	1,612	733	1,122	766	356	146	97	49	7
9,705	6,821	2,884	7,493	5,192	2,301	4,561	3,033	1,528	2,359	1,555	804	530	368	162	8
95,481	68,566	26,915	64,874	46,056	18,818	37,031	26,642	10,389	17,482	12,670	4,812	2,693	1,470	1,223	9
22,436	16,777	5,659	16,705	12,463	4,242	8,762	6,358	2,404	4,448	3,232	1,216	708	483	225	10
75,643	60,983	14,660	51,745	41,157	10,588	29,076	22,849	6,227	15,876	12,595	3,281	2,539	1,741	798	11
94,402	49,125	45,277	63,973	32,421	31,552	33,704	16,914	16,790	20,907	10,468	10,439	5,220	2,697	2,523	12
2,562	1,881	681	1,922	1,396	526	1,089	765	324	689	462	227	113	66	47	13
17,846	10,944	6,902	12,740	7,752	4,988	6,621	3,936	2,685	3,774	2,226	1,548	1,119	773	346	14
7,674	3,929	3,745	5,537	3,033	2,504	2,530	1,364	1,166	1,234	652	582	431	203	238	15
19,526	9,963	9,563	12,672	6,146	6,526	6,785	3,335	3,450	4,408	2,269	2,139	984	450	514	16
4,372	3,221	1,151	2,727	1,966	761	1,544	1,106	438	942	645	297	340	216	124	17
10,494	4,347	6,147	7,755	3,306	4,449	4,325	1,753	2,572	2,810	1,091	1,719	572	267	305	18
8,611	3,728	4,883	5,709	2,289	3,420	3,196	1,262	1,934	2,278	911	1,367	365	163	202	19
17,960	7,825	10,135	11,534	4,565	6,969	6,094	2,558	3,536	3,911	1,742	2,169	932	353	579	20
5,357	3,267	2,090	3,377	1,968	1,409	1,520	835	685	861	470	391	384	206	178	21
213,819	176,152	37,667	137,879	112,745	25,134	73,584	59,848	13,736	36,109	29,222	6,887	7,442	4,990	2,452	22
41,369	33,637	7,732	27,851	22,520	5,331	15,619	12,598	3,021	8,320	6,686	1,634	1,259	839	420	23
19,862	16,505	3,357	13,086	10,769	2,317	7,672	6,359	1,313	3,870	3,159	711	701	447	254	24
43,406	35,870	7,536	27,907	23,080	4,827	14,598	12,142	2,456	6,690	5,555	1,144	1,080	660	420	25
24,709	21,541	3,168	15,703	13,371	2,332	8,234	6,871	1,363	4,103	3,438	665	707	483	224	26
16,260	14,271	1,989	10,067	8,743	1,324	5,913	5,120	793	3,320	2,848	472	552	359	193	27
13,069	10,969	2,100	6,835	5,623	1,212	3,313	2,671	642	1,534	1,198	336	667	436	231	28
11,763	9,739	2,024	8,537	7,163	1,374	4,836	4,059	777	2,599	2,199	400	267	170	97	29
23,854	17,622	6,232	15,929	11,720	4,209	7,949	5,801	2,148	3,458	2,438	1,020	1,525	1,086	439	30
1,127	830	297	527	365	162	229	153	76	97	54	43	40	20	20	31
1,858	1,476	382	982	740	242	430	318	112	164	116	48	142	115	27	32
8,638	7,324	1,314	4,258	3,555	703	1,829	1,429	400	683	538	145	323	261	62	33
7,904	6,368	1,536	6,217	5,096	1,121	2,962	2,327	635	1,262	993	269	179	114	65	34
86,196	48,313	37,883	59,724	32,039	27,685	31,086	15,906	15,180	18,729	9,258	9,471	7,314	4,314	3,000	35
15,341	8,810	6,531	10,506	5,922	4,584	5,699	3,337	2,362	3,479	1,998	1,481	1,394	727	667	36
13,314	6,803	6,511	9,273	4,699	4,574	4,879	2,459	2,420	2,780	1,339	1,441	1,450	868	582	37
10,567	4,554	6,013	8,271	3,729	4,542	4,203	1,651	2,552	2,724	1,051	1,673	1,150	722	428	38
7,816	3,388	4,428	5,273	1,897	3,376	3,298	1,320	1,978	2,250	875	1,375	470	189	281	39
15,632	9,334	6,298	11,220	6,269	4,951	6,326	3,354	2,972	4,041	2,071	1,970	418	199	219	40
17,365	11,619	5,746	10,966	6,985	3,981	4,892	2,838	2,054	2,526	1,478	1,048	1,927	1,349	578	41
290	248	42	165	136	29	77	65	12	21	14	7	4	3	1	42
5,871	3,557	2,314	4,050	2,402	1,648	1,712	882	830	908	433	476	501	257	244	43
60,260	58,424	7,836	34,642	29,423	5,219	16,522	13,981	2,541	5,539	4,625	914	4,563	4,160	403	44
3,547	3,249	298	1,648	1,494	154	463	416	47	123	110	13	380	334	46	45
1,530	1,436	94	608	554	54	189	162	27	44	37	7	28	19	9	46
8,205	6,716	1,489	3,626	2,859	767	1,261	954	307	398	318	75	951	887	64	47
3,549	3,079	470	1,985	1,062	923	1,079	915	164	443	381	62	48	43	5	48
1,822	1,616	206	876	740	136	342	279	63	112	97	15	18	13	5	49
2,344	2,086	258	1,260	1,044	216	697	549	148	442	349	93	67	50	17	50
1,419	1,262	157	911	785	126	487	424	63	166	135	31	9	4	5	51
1,805	1,202	103	658	603	55	356	310	46	82	73	9	35	28	7	52
7,558	6,985	573	3,328	3,010	318	1,172	1,028	144	277	234	43	492	464	28	53
5,480	5,027	453	2,823	2,543	280	1,080	918	162	343	285	58	270	251	19	54
29,521	25,766	3,755	16,909	14,129	2,780	9,396	8,026	1,370	3,114	2,606	508	2,285	2,067	198	55

STATISTICS OF POPULATION.

TABLE 7.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH

TRADE AND TRANSPORTATION.

	STATES AND TERRITORIES.	10 TO 14 YEARS.			15 TO 24 YEARS.			25 TO 34 YEARS.		
		Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
1	The United States.....	44,326	39,108	5,218	965,495	832,461	133,034	996,256	946,402	49,854
2	North Atlantic division.....	21,339	18,411	2,928	399,583	332,136	67,447	369,706	344,769	24,937
3	Maine.....	119	112	7	9,287	7,995	1,292	9,811	9,120	691
4	New Hampshire.....	59	49	10	5,320	4,621	699	5,792	5,353	439
5	Vermont.....	62	61	1	3,871	3,517	354	4,103	3,882	221
6	Massachusetts.....	1,573	1,328	245	59,843	47,299	12,544	56,310	50,647	5,669
7	Rhode Island.....	511	443	68	8,108	6,543	1,565	7,429	6,799	630
8	Connecticut.....	516	440	76	15,309	12,176	3,133	13,559	12,499	1,060
9	New York.....	10,298	8,589	1,709	165,325	136,970	28,355	146,763	137,993	8,770
10	New Jersey.....	1,891	1,699	192	35,796	30,589	5,207	32,669	31,102	1,567
11	Pennsylvania.....	6,310	5,690	620	96,724	82,426	14,298	93,264	87,374	5,890
12	South Atlantic division.....	5,484	5,133	351	95,316	87,517	7,799	88,782	84,958	3,824
13	Delaware.....	166	154	12	2,476	2,113	363	2,514	2,359	155
14	Maryland.....	1,330	1,182	157	20,566	17,940	2,626	18,946	17,750	1,196
15	District of Columbia.....	453	425	28	8,692	6,746	1,946	6,999	5,802	1,197
16	Virginia.....	954	915	39	19,111	18,199	912	16,559	16,209	350
17	West Virginia.....	222	208	14	7,259	6,864	395	6,924	6,754	170
18	North Carolina.....	469	449	20	8,771	8,475	296	8,796	8,663	127
19	South Carolina.....	395	379	16	6,781	6,514	267	6,438	6,300	138
20	Georgia.....	1,808	1,247	61	17,293	16,469	824	16,884	16,495	389
21	Florida.....	178	174	4	4,367	4,191	176	4,728	4,626	102
22	North Central division.....	11,615	10,013	1,602	322,433	275,157	47,276	362,739	346,178	16,611
23	Ohio.....	2,155	1,885	270	56,627	47,657	8,970	56,502	53,271	3,231
24	Indiana.....	621	570	51	23,871	20,853	3,018	23,135	20,757	1,378
25	Illinois.....	3,716	3,043	673	73,101	60,376	12,725	75,804	71,875	3,929
26	Michigan.....	912	811	101	23,936	24,496	4,440	31,302	29,572	1,730
27	Wisconsin.....	547	453	94	19,942	16,893	3,049	21,706	20,677	1,029
28	Minnesota.....	465	426	39	20,053	17,322	2,731	27,141	26,051	1,090
29	Iowa.....	380	357	23	22,332	19,561	2,771	27,678	26,595	1,083
30	Missouri.....	1,929	1,679	250	40,555	35,501	5,054	43,658	42,093	1,565
31	North Dakota.....	13	11	2	1,588	1,480	108	2,914	2,875	39
32	South Dakota.....	41	38	3	2,937	2,732	205	4,967	4,846	121
33	Nebraska.....	628	553	75	18,002	15,544	2,458	22,129	22,356	773
34	Kansas.....	208	187	21	14,489	12,742	1,747	19,833	19,210	643
35	South Central division.....	4,296	4,077	219	91,250	86,122	5,128	95,478	93,221	2,257
36	Kentucky.....	886	833	53	18,362	16,671	1,691	18,230	17,510	720
37	Tennessee.....	816	765	51	16,824	15,872	952	16,044	15,079	965
38	Alabama.....	710	676	34	11,658	11,295	363	10,921	10,740	181
39	Mississippi.....	261	251	10	6,638	6,415	223	6,907	6,781	126
40	Louisiana.....	685	655	30	11,996	11,297	699	10,784	10,408	376
41	Texas.....	740	710	30	19,905	18,984	921	24,801	24,427	374
42	Oklahoma.....	10	15	1	402	372	30	781	772	9
43	Arkansas.....	182	172	10	5,465	5,216	249	7,010	6,904	106
44	Western division.....	1,592	1,474	118	56,913	51,529	5,384	79,501	77,276	2,225
45	Montana.....	41	40	1	2,669	2,557	112	4,792	4,728	64
46	Wyoming.....	21	20	1	1,358	1,311	47	2,166	2,155	11
47	Colorado.....	258	217	41	10,039	9,069	970	15,341	14,856	485
48	New Mexico.....	43	42	1	1,137	1,098	39	1,737	1,726	11
49	Arizona.....	14	13	1	803	791	12	1,302	1,293	9
50	Utah.....	139	129	10	3,056	2,740	316	3,898	3,793	105
51	Nevada.....	5	5	.....	636	609	27	876	865	11
52	Idaho.....	21	21	.....	948	901	47	1,627	1,611	16
53	Washington.....	165	157	8	7,006	6,590	506	11,712	11,494	218
54	Oregon.....	123	119	4	4,885	4,406	479	6,702	6,484	218
55	California.....	762	711	51	24,286	21,457	2,829	29,348	28,271	1,077

CLASS OF OCCUPATIONS, CLASSIFIED BY SEX AND AGE PERIODS, BY STATES AND TERRITORIES: 1890—Continued.

TRADE AND TRANSPORTATION.

35 TO 44 YEARS.			45 TO 54 YEARS.			55 TO 64 YEARS.			65 YEARS AND OVER.			AGE UNKNOWN.			
Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	
642,696	622,658	20,038	396,861	385,436	11,425	184,966	179,277	5,689	78,193	75,728	2,465	17,329	16,631	698	I
246,489	236,208	10,281	161,188	155,581	5,607	77,896	75,068	2,828	36,287	35,112	1,175	4,291	4,017	274	2
7,510	7,288	222	5,554	5,421	133	3,128	3,070	58	1,736	1,712	24	146	132	14	3
3,833	3,667	166	2,520	2,462	57	1,435	1,404	31	702	689	13	101	94	7	4
2,881	2,797	84	1,989	1,953	36	1,027	1,013	14	548	544	4	70	67	3	5
37,057	34,803	2,254	23,313	22,341	972	11,894	11,508	386	5,957	5,810	147	560	505	55	6
5,287	5,050	237	3,527	3,428	99	1,678	1,631	47	780	765	15	52	50	2	7
9,026	8,642	384	6,189	6,015	174	3,035	2,960	75	1,589	1,574	15	160	151	9	8
96,782	93,256	3,526	63,508	61,546	1,962	29,973	29,018	955	13,355	12,952	403	1,560	1,466	94	9
22,948	22,184	764	15,716	15,175	541	7,368	7,077	291	3,328	3,210	118	356	349	7	10
61,165	58,521	2,644	38,863	37,240	1,623	18,358	17,389	969	8,292	7,856	436	1,286	1,203	83	11
58,614	56,160	2,454	35,495	33,756	1,739	16,024	15,172	852	7,193	6,788	405	1,843	1,744	99	12
1,854	1,773	81	1,160	1,100	60	503	537	26	270	258	12	42	37	5	13
12,954	12,231	723	8,587	8,062	525	4,283	3,948	335	2,134	1,950	184	170	164	6	14
5,393	4,492	901	4,482	3,883	599	1,924	1,720	204	749	691	58	199	141	58	15
10,821	10,584	237	6,604	6,416	188	2,814	2,713	101	1,354	1,311	43	309	302	7	16
4,201	4,128	73	2,397	2,352	45	1,104	1,080	24	503	495	8	363	358	5	17
5,566	5,485	81	3,034	2,979	55	1,378	1,353	25	560	541	19	231	226	5	18
4,290	4,203	86	2,186	2,090	96	1,070	1,009	61	488	453	35	78	76	2	19
10,551	10,347	204	5,302	5,179	123	2,215	2,152	63	888	847	41	329	318	11	20
2,975	2,917	58	1,743	1,695	48	878	660	13	247	242	5	122	122	.....	21
228,064	220,989	5,075	136,316	133,824	2,492	62,364	61,161	1,203	23,914	23,402	512	5,644	5,439	205	22
38,331	37,249	1,082	24,000	23,428	572	11,821	11,523	298	5,341	5,203	138	801	762	39	23
19,062	18,648	414	11,928	11,694	234	5,899	5,784	115	2,318	2,267	51	510	486	24	24
46,039	44,847	1,192	28,859	28,296	563	13,543	13,304	239	4,908	4,810	98	734	695	39	25
20,705	20,144	561	12,737	12,479	258	5,751	5,630	121	2,450	2,400	50	483	459	24	26
12,846	12,505	341	7,663	7,526	137	3,886	3,801	85	1,722	1,677	45	308	298	10	27
13,797	13,560	237	6,783	6,678	105	2,891	2,849	42	882	868	14	444	431	13	28
18,266	17,964	302	11,547	11,410	137	5,394	5,322	72	2,004	1,971	33	496	486	10	29
26,756	26,214	542	16,280	15,969	311	7,102	6,944	158	2,480	2,425	55	1,286	1,258	28	30
1,440	1,421	19	469	465	4	163	161	2	47	45	.....	45	45	.....	31
2,936	2,905	31	1,251	1,232	19	496	489	7	135	134	1	87	85	2	32
12,427	12,286	141	5,883	5,838	45	2,037	2,021	16	557	543	14	220	214	6	33
13,459	13,246	213	8,916	8,809	107	3,831	3,833	48	1,070	1,057	13	230	220	10	34
62,464	61,113	1,351	36,210	35,168	1,042	15,495	14,907	588	6,491	6,198	293	3,634	3,554	80	35
11,497	11,144	353	6,952	6,752	200	3,230	3,114	116	1,440	1,388	52	548	528	20	36
10,050	9,880	170	6,079	5,942	137	2,528	2,472	56	998	971	27	561	545	16	37
6,450	6,314	136	3,893	3,788	105	1,657	1,598	59	705	679	26	305	298	7	38
4,556	4,464	92	2,290	2,197	93	1,111	1,074	37	504	492	12	150	143	7	39
7,921	7,591	330	5,233	4,924	309	2,583	2,347	236	1,239	1,120	119	145	141	4	40
16,724	16,511	213	8,724	8,573	151	3,333	3,264	69	1,230	1,179	51	1,576	1,561	15	41
482	477	5	257	252	5	100	100	.....	24	24	.....	13	13	.....	42
4,778	4,732	46	2,782	2,740	42	853	838	15	351	345	6	336	325	11	43
49,065	48,188	877	27,652	27,107	545	13,187	12,969	218	4,308	4,228	80	1,917	1,877	40	44
2,230	2,204	26	1,153	1,138	15	330	328	2	87	87	.....	141	137	4	45
1,128	1,110	18	430	422	8	120	120	.....	25	25	.....	10	0	1	46
8,897	8,630	177	4,153	4,007	56	1,345	1,324	21	364	359	5	231	227	4	47
1,137	1,121	16	609	604	5	230	229	1	68	66	2	18	17	1	48
891	887	4	470	465	5	208	206	2	41	41	.....	9	9	.....	49
2,179	2,134	45	1,142	1,104	33	479	463	16	159	150	9	36	35	1	50
811	807	7	558	552	6	332	328	4	83	81	2	4	4	.....	51
977	967	10	470	460	10	231	230	1	55	54	1	29	29	.....	52
6,001	5,939	62	2,781	2,748	33	967	952	15	244	243	1	300	298	2	53
3,993	3,919	74	2,144	2,103	41	1,014	1,000	14	321	315	6	191	183	3	54
20,908	20,470	438	13,742	13,414	328	7,931	7,789	142	2,861	2,807	54	948	924	24	55

STATISTICS OF POPULATION.

TABLE 7.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH MANUFACTURING AND MECHANICAL INDUSTRIES.

	STATES AND TERRITORIES.	10 TO 14 YEARS.			15 TO 24 YEARS.			25 TO 34 YEARS.		
		Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
1	The United States.....	89,824	54,389	35,435	1,579,087	1,026,114	552,973	1,861,154	1,122,554	238,600
2	North Atlantic division.....	48,779	27,774	21,005	868,253	525,474	342,779	663,420	525,275	138,145
3	Maine.....	1,233	677	556	25,168	14,702	10,466	19,918	14,817	5,101
4	New Hampshire.....	1,694	897	797	25,945	14,058	11,887	17,554	12,222	5,332
5	Vermont.....	303	207	96	7,779	5,471	2,308	7,319	6,086	1,233
6	Massachusetts.....	6,544	3,633	2,911	168,318	93,885	74,433	125,503	90,574	34,929
7	Rhode Island.....	4,539	2,368	2,171	31,441	16,233	15,208	19,071	13,368	5,703
8	Connecticut.....	2,419	1,332	1,087	52,253	30,653	21,600	36,895	29,059	7,836
9	New York.....	13,739	7,204	6,535	274,047	165,119	108,928	217,060	174,291	42,769
10	New Jersey.....	5,125	3,207	1,858	77,522	48,802	28,720	56,217	47,253	8,964
11	Pennsylvania.....	13,183	8,189	4,994	205,780	136,551	69,229	163,883	137,605	26,278
12	South Atlantic division.....	14,419	8,555	5,864	123,053	83,027	39,126	99,008	80,562	18,446
13	Delaware.....	323	239	84	5,466	3,976	1,490	4,816	4,175	641
14	Maryland.....	2,613	1,536	1,077	32,520	20,147	12,373	24,097	19,023	5,074
15	District of Columbia.....	140	102	38	6,879	4,871	2,008	5,832	4,482	1,350
16	Virginia.....	2,113	1,531	582	21,806	15,853	5,953	18,178	14,949	3,229
17	West Virginia.....	422	370	52	8,381	6,827	1,554	8,274	7,307	967
18	North Carolina.....	3,460	1,808	1,666	15,941	9,895	6,046	11,193	8,834	2,359
19	South Carolina.....	2,345	1,152	1,193	10,077	6,125	3,952	6,670	5,191	1,479
20	Georgia.....	2,664	1,558	1,106	17,112	12,310	4,802	14,970	12,267	2,703
21	Florida.....	330	264	66	4,871	3,923	948	4,978	4,334	644
22	North Central division.....	19,360	13,114	6,246	441,285	308,278	133,007	433,246	372,258	60,988
23	Ohio.....	4,867	3,139	1,728	100,274	70,052	30,222	87,726	74,151	13,575
24	Indiana.....	1,416	1,033	383	36,941	27,046	9,895	36,747	31,001	5,746
25	Illinois.....	5,231	3,272	1,959	96,607	66,627	29,980	91,961	79,808	12,153
26	Michigan.....	1,861	1,400	461	44,958	32,181	12,777	44,977	39,110	5,867
27	Wisconsin.....	2,100	1,480	620	41,089	28,467	12,619	37,480	32,724	4,756
28	Minnesota.....	422	327	95	22,592	15,707	6,795	28,664	25,206	3,458
29	Iowa.....	662	546	116	23,895	15,720	8,175	24,264	19,838	4,426
30	Missouri.....	2,351	1,580	771	45,134	31,788	13,346	41,914	36,251	5,663
31	North Dakota.....	12	7	5	1,084	683	401	1,853	1,578	275
32	South Dakota.....	18	13	5	2,133	1,397	736	3,562	3,067	495
33	Nebraska.....	279	205	74	14,566	10,401	4,165	19,150	16,993	2,157
34	Kansas.....	138	112	26	12,105	8,209	3,896	14,942	12,531	2,411
35	South Central division.....	6,003	3,959	2,044	86,659	63,284	23,375	83,152	70,525	12,627
36	Kentucky.....	1,730	1,151	579	24,317	16,553	7,764	20,749	16,022	3,827
37	Tennessee.....	1,128	798	330	15,200	11,687	3,513	14,847	12,811	2,036
38	Alabama.....	1,238	703	535	10,982	8,125	2,777	10,242	8,819	1,423
39	Mississippi.....	450	290	160	5,263	3,872	1,391	4,614	3,845	769
40	Louisiana.....	733	463	270	12,770	8,455	4,315	9,777	7,707	2,070
41	Texas.....	511	386	125	13,258	10,555	2,703	16,340	14,445	1,895
42	Oklahoma.....	7	6	1	350	286	64	653	608	45
43	Arkansas.....	206	162	44	4,599	3,751	848	5,930	5,368	562
44	Western division.....	1,263	987	276	59,837	45,151	14,686	82,328	73,934	8,394
45	Montana.....	23	16	6	2,276	1,889	387	4,816	4,481	335
46	Wyoming.....	15	3	12	887	743	144	1,700	1,613	87
47	Colorado.....	160	133	27	8,657	7,051	1,606	14,728	13,344	1,384
48	New Mexico.....	40	13	27	738	518	240	1,044	906	138
49	Arizona.....	10	8	2	464	334	130	756	664	92
50	Utah.....	99	85	14	3,264	2,371	893	3,956	3,547	409
51	Nevada.....	3	3	0	492	340	152	718	611	107
52	Idaho.....	6	5	1	703	548	155	1,290	1,160	130
53	Washington.....	92	84	8	7,909	6,779	1,130	14,057	13,277	780
54	Oregon.....	103	93	10	5,061	3,845	1,216	7,276	6,550	726
55	California.....	713	544	169	29,366	20,733	8,633	31,987	27,781	4,206

OCCUPATIONS.

87

CLASS OF OCCUPATIONS, CLASSIFIED BY SEX AND AGE PERIODS, BY STATES AND TERRITORIES: 1890—Continued.

MANUFACTURING AND MECHANICAL INDUSTRIES.

35 TO 44 YEARS.			45 TO 54 YEARS.			55 TO 64 YEARS.			65 YEARS AND OVER.			AGE UNKNOWN.			
Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	
924,657	818,324	106,333	611,066	555,172	55,894	338,233	313,414	24,819	170,242	150,292	10,950	17,030	14,792	2,238	1
440,860	382,672	58,188	293,483	264,127	29,356	161,407	148,698	12,709	82,984	77,773	5,211	6,564	5,326	1,238	2
13,854	11,523	2,331	9,561	8,304	1,257	6,285	5,708	577	3,622	3,352	270	413	354	59	3
11,323	9,057	2,266	7,551	6,381	1,170	4,462	3,966	496	2,522	2,339	183	357	269	88	4
5,805	5,131	674	4,179	3,746	433	2,582	2,379	203	1,621	1,482	139	114	100	14	5
79,322	65,163	14,159	52,696	46,026	6,670	28,196	25,635	2,561	13,645	12,773	872	1,422	1,072	350	6
12,310	10,108	2,202	8,054	7,117	937	4,020	3,713	307	1,980	1,837	143	183	95	88	7
23,563	20,674	2,889	16,601	15,228	1,373	9,200	8,559	641	5,056	4,783	273	410	305	105	8
144,848	125,716	19,132	96,556	86,699	9,857	53,188	48,815	4,373	27,318	25,452	1,866	1,460	1,134	326	9
37,860	34,819	3,041	26,001	24,057	1,944	13,955	13,124	831	6,752	6,430	322	460	419	41	10
111,975	100,981	10,994	72,284	66,569	5,715	39,519	36,799	2,720	20,468	19,325	1,143	1,795	1,578	217	11
74,974	63,984	10,990	51,225	44,578	6,647	29,763	26,604	3,159	16,691	15,087	1,604	1,681	1,466	215	12
3,339	3,075	254	2,265	2,119	146	1,203	1,137	66	639	614	25	63	59	4	13
17,669	15,061	2,608	12,638	11,028	1,610	7,826	7,015	811	4,489	4,072	417	163	132	31	14
4,467	3,656	811	3,279	2,872	407	1,815	1,630	185	814	747	67	85	71	14	15
14,709	12,567	2,142	10,277	8,948	1,329	6,353	5,698	655	3,831	3,442	389	347	317	80	16
5,901	5,555	426	3,919	3,687	232	2,201	2,074	127	1,369	1,318	71	265	249	16	17
8,485	6,972	1,513	5,873	4,864	1,009	3,412	2,903	504	1,990	1,716	274	282	239	43	18
5,260	4,299	961	3,568	2,975	593	1,960	1,676	284	1,141	1,007	134	116	102	14	19
11,470	9,625	1,845	6,936	5,878	1,058	3,731	3,318	413	1,869	1,690	179	242	187	55	20
3,594	3,174	420	2,470	2,207	263	1,262	1,148	114	529	481	48	118	110	8	21
289,955	264,262	25,693	188,156	174,599	13,557	104,941	98,852	6,089	51,573	48,737	2,836	4,582	4,085	497	22
61,428	55,378	6,050	39,902	36,556	3,346	23,275	21,755	1,520	12,534	11,790	744	981	837	144	23
27,464	24,579	2,885	18,896	17,245	1,651	11,587	10,759	828	5,954	5,575	379	503	458	45	24
58,119	53,282	4,837	37,614	35,106	2,508	20,067	19,030	1,037	8,937	8,452	485	601	530	71	25
31,764	29,116	2,648	21,046	19,594	1,452	11,356	10,696	660	5,661	5,364	297	475	417	58	26
22,927	21,414	1,513	13,350	12,653	697	7,670	7,318	352	4,312	4,099	213	370	335	35	27
16,711	15,680	1,031	8,623	8,202	421	4,327	4,134	193	1,856	1,783	73	643	605	38	28
16,775	15,034	1,741	12,262	11,304	958	7,519	7,103	416	4,120	3,894	226	157	139	18	29
28,263	25,630	2,633	19,538	18,165	1,373	10,640	10,072	568	4,564	4,320	244	503	452	51	30
1,043	947	96	473	439	34	224	210	14	91	88	3	17	16	1	31
2,437	2,231	206	1,324	1,230	94	671	628	43	307	297	10	46	37	9	32
11,632	10,763	869	6,068	5,690	378	2,803	2,639	164	1,142	1,084	58	146	130	16	33
11,392	10,208	1,184	9,060	8,415	645	4,802	4,508	294	2,095	1,991	104	140	129	11	34
63,637	56,122	7,565	44,972	40,476	4,496	24,297	22,180	2,117	12,187	11,187	1,000	2,363	2,181	182	35
15,075	13,229	1,846	10,684	9,604	1,080	6,233	5,721	562	3,365	3,104	261	472	411	61	36
11,329	9,964	1,365	8,257	7,466	791	4,654	4,288	366	2,317	2,095	222	440	403	37	37
7,065	6,125	940	5,389	4,801	588	2,580	2,325	255	1,362	1,239	123	241	221	20	38
3,963	3,475	488	2,626	2,320	306	1,776	1,649	127	846	798	48	99	87	12	39
7,539	6,201	1,338	5,564	4,690	874	3,375	2,918	457	1,774	1,583	191	132	114	18	40
13,277	12,085	1,192	8,501	7,878	623	3,769	3,532	237	1,738	1,630	108	671	648	23	41
546	522	24	387	377	10	182	178	4	41	41	-----	2	2	-----	42
4,893	4,521	372	3,564	3,340	224	1,678	1,569	109	744	697	47	306	295	11	43
55,181	51,284	3,897	33,230	31,392	1,838	17,825	17,080	745	6,807	6,508	299	1,840	1,734	106	44
2,561	2,434	127	1,305	1,262	43	506	486	20	146	141	5	132	128	4	45
1,235	1,189	46	560	536	24	169	164	5	59	58	1	9	8	1	46
8,681	8,050	631	4,547	4,310	237	1,855	1,758	97	565	535	30	187	174	13	47
986	891	95	685	631	55	341	323	18	126	111	15	16	14	2	48
701	643	58	456	433	23	248	241	7	96	92	4	2	1	1	49
2,566	2,371	195	1,585	1,467	118	1,082	1,022	60	765	698	67	35	34	1	50
730	670	60	592	545	47	390	377	13	134	132	2	2	2	-----	51
925	871	54	611	577	34	328	317	11	108	108	-----	16	15	1	52
8,053	7,745	308	4,216	4,101	115	1,727	1,682	45	508	497	11	420	414	6	53
4,950	4,659	291	3,035	2,903	132	1,622	1,578	44	642	621	21	271	271	-----	54
23,793	21,761	2,032	15,637	14,627	1,010	9,557	9,132	425	3,658	3,515	143	750	673	77	55

STATISTICS OF POPULATION.

TABLE 8.—TOTAL PERSONS 10 YEARS OF AGE AND OVER IN THE UNITED STATES ENGAGED

OCCUPATIONS.	10 TO 14 YEARS.			15 TO 24 YEARS.			25 TO 34 YEARS.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
1 All occupations.....	603,013	400,586	202,427	6,615,318	4,761,858	1,853,460	5,797,484	4,989,814	807,670
2 Agriculture, fisheries, and mining.....	339,947	256,130	83,817	2,317,348	2,103,220	214,128	2,044,747	1,953,651	91,096
3 Agricultural laborers (a).....	324,108	240,558	83,550	1,575,610	1,375,456	200,154	554,088	483,187	70,901
4 Apiarists.....	5	5		200	193	7	396	388	8
5 Dairymen and dairywomen.....	235	182	53	4,537	4,013	524	5,198	4,877	321
6 Farmers, planters, and overseers (a).....				565,538	552,987	12,551	1,273,214	1,253,970	19,244
7 Fishermen and oystermen (a).....	731	721	10	14,016	13,953	63	16,905	16,858	47
8 Gardeners, florists, nurserymen, and vine growers.....	413	366	47	8,954	8,570	384	14,551	14,213	338
9 Lumbermen and raftsmen.....	173	172	1	16,698	16,687	11	23,380	23,372	8
10 Miners (coal).....	8,870	8,824	46	61,412	61,304	108	63,023	62,999	24
11 Miners (not otherwise specified).....	1,481	1,482	9	23,523	23,480	43	44,506	44,494	12
12 Quarrymen.....	740	738	2	9,370	9,358	12	11,905	11,897	8
13 Stock raisers, herders, and drovers.....	2,340	2,299	41	16,947	16,864	83	21,389	21,272	117
14 Wood choppers.....	400	395	5	8,585	8,568	17	10,505	10,501	4
15 Other agricultural pursuits (a).....	441	388	53	6,958	6,787	171	5,687	5,623	64
16 Professional service.....	908	462	446	254,975	90,997	163,978	276,993	185,535	91,458
17 Actors.....	95	24	71	3,382	1,372	2,010	3,753	2,386	1,367
18 Architects.....				1,946	1,935	11	2,336	2,328	8
19 Artists and teachers of art.....	91	51	40	7,007	2,683	4,324	7,402	3,779	3,623
20 Authors and literary and scientific persons.....				1,239	494	745	1,786	1,027	759
21 Chemists, assayers, and metallurgists.....				1,102	1,085	17	1,439	1,422	17
22 Clergymen.....				2,705	2,561	144	20,233	19,900	333
23 Dentists.....				2,856	2,706	150	5,617	5,505	112
24 Designers, draftsmen, and inventors.....	20	20		2,957	2,831	126	2,742	2,635	107
25 Engineers (civil, mechanical, electrical, and mining) and surveyors.....	42	42		9,913	9,848	65	14,203	14,179	24
26 Journalists.....				3,379	3,178	201	7,490	7,183	307
27 Lawyers.....				5,877	5,806	71	25,753	25,687	66
28 Musicians and teachers of music.....	207	123	84	22,713	5,823	16,890	20,038	9,142	10,896
29 Officers of United States army and navy.....				214	214		832	832	
30 Officials (government) (a).....				7,585	6,006	1,579	19,286	18,098	1,188
31 Physicians and surgeons.....				5,762	5,103	659	27,993	26,814	1,179
32 Professors in colleges and universities.....				676	430	246	1,724	1,471	253
33 Teachers.....	257	30	227	169,876	33,512	136,364	106,207	35,327	70,880
34 Theatrical managers, showmen, etc.....	193	172	21	4,933	4,620	313	6,080	5,902	178
35 Veterinary surgeons.....				530	529	1	1,526	1,525	1
36 Other professional service.....	3		3	323	261	62	493	393	100
37 Domestic and personal service.....	128,008	50,497	77,511	1,498,413	709,066	789,347	1,118,334	781,672	336,662
38 Barbers and hairdressers.....	579	533	46	26,298	25,092	1,206	30,907	30,182	725
39 Bartenders.....	153	153		17,385	17,334	51	24,033	23,983	50
40 Boarding and lodging house keepers.....				1,367	388	979	8,016	2,137	5,879
41 Engineers and firemen (not locomotive).....	164	164		22,259	22,244	15	46,789	46,772	17
42 Hotel keepers.....				1,272	1,140	132	8,275	7,513	762
43 Housekeepers and stewards (a).....				20,500	1,038	19,462	19,830	1,703	18,127
44 Hunters, trappers, guides, and scouts.....	29	26	3	421	416	5	585	582	3
45 Janitors.....	45	40	5	1,995	1,769	226	4,575	3,933	642
46 Laborers (not specified) (a).....	35,484	30,990	4,494	545,851	523,958	21,893	529,548	519,039	10,509
47 Launderers and laundresses.....	1,723	213	1,510	66,913	7,504	59,409	63,757	12,476	51,281
48 Nurses and midwives.....				11,283	1,626	9,657	10,953	2,209	8,744
49 Restaurant keepers.....				1,746	1,531	215	5,502	4,940	562
50 Saloon keepers.....				4,389	4,290	99	23,482	23,061	421
51 Servants.....	88,804	17,420	71,384	760,063	85,095	674,968	306,515	68,383	238,132
52 Sextons.....	12	12		535	531		891	888	3
53 Soldiers, sailors, and marines (United States) (a).....				7,953	7,953	4	12,692	12,692	
54 Watchmen, policemen, and detectives.....	61	61		4,431	4,409	22	19,002	18,943	59
55 Other domestic and personal service.....	954	885	69	3,761	2,748	1,013	2,982	2,236	746
56 Trade and transportation.....	44,326	39,108	5,218	965,495	832,461	133,034	996,256	946,402	49,854
57 Agents (claim, commission, real estate, insurance, etc.) and collectors.....	241	219	22	22,788	21,743	1,045	49,473	48,251	1,222
58 Auctioneers.....				190	190		564	563	1
59 Bankers and brokers (money and stocks).....				1,591	1,558	33	6,288	6,233	55
60 Boatmen and canalmen.....	269	269		4,099	4,084	15	4,455	4,450	5
61 Bookkeepers and accountants (a).....	388	222	166	61,695	43,745	17,950	51,024	43,733	7,291
62 Brokers (commercial).....				526	523	3	1,552	1,552	
63 Clerks and copyists (a).....	10,100	8,698	1,402	286,046	244,804	41,242	148,309	134,035	14,274
64 Commercial travelers.....				7,533	7,289	244	20,823	20,663	160
65 Draymen, hackmen, teamsters, etc.....	3,225	3,212	13	103,055	102,945	110	117,812	117,767	45
66 Foremen and overseers.....				3,342	2,960	382	11,996	11,639	357
67 Hostlers.....	633	633		18,513	18,505	8	16,268	16,263	5
68 Hucksters and peddlers.....	992	915	77	12,086	11,696	390	16,143	15,827	316
69 Livery stable keepers.....				2,756	2,753	3	8,171	8,160	11
70 Locomotive engineers and firemen (a).....	24	24		16,357	16,356	1	33,671	33,668	3
71 Merchants and dealers in drugs and chemicals (retail).....				9,622	9,383	239	16,180	15,983	197
72 Merchants and dealers in dry goods (retail).....				2,786	2,633	153	12,446	12,004	442
73 Merchants and dealers in groceries (retail).....				10,324	10,024	299	33,047	31,936	1,111
74 Merchants and dealers in wines and liquors (retail).....				576	573	3	3,094	3,066	28
75 Merchants and dealers in wines and liquors (wholesale).....				182	181	1	984	970	14

a See explanatory notes in Table 2.

IN EACH SPECIFIED OCCUPATION, CLASSIFIED BY SEX AND AGE PERIODS: 1890.

35 TO 44 YEARS.			45 TO 54 YEARS.			55 TO 64 YEARS.			65 YEARS AND OVER.			AGE UNKNOWN.			
Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	
4,067,423	3,626,356	441,067	2,851,822	2,538,459	313,363	1,695,002	1,514,615	180,387	1,009,053	910,895	98,158	96,546	78,507	18,039	1
1,605,715	1,518,619	87,096	1,246,545	1,154,085	92,460	847,138	779,175	67,963	586,713	545,966	40,747	25,183	22,967	2,216	2
250,640	206,416	44,223	146,407	118,539	27,868	83,743	71,061	12,682	58,987	52,716	6,271	10,469	9,024	1,445	8
381	370	11	314	302	12	274	271	3	202	198	4	1	1	1	3
3,580	3,307	273	2,314	2,036	278	1,361	1,173	188	621	527	94	49	46	3	5
1,208,670	1,166,772	41,898	1,007,606	944,062	63,544	713,977	659,476	54,501	503,132	469,151	33,981	9,420	8,712	708	6
12,497	12,451	46	8,350	8,301	49	4,430	4,410	20	2,530	2,510	20	703	695	8	7
13,944	13,536	408	13,397	12,912	485	11,394	10,960	434	9,651	9,342	309	297	287	10	8
13,511	13,508	3	7,256	7,253	3	3,098	3,097	1	1,035	1,034	1	715	715	1	9
39,845	39,829	16	22,823	22,807	16	9,034	9,030	4	2,804	2,803	1	734	734	1	10
31,004	30,993	11	19,774	19,761	13	10,525	10,521	4	3,689	3,687	2	1,535	1,496	39	11
7,958	7,955	3	4,536	4,534	2	1,993	1,992	1	681	681	1	473	473	1	12
14,347	14,213	134	8,609	8,462	147	4,732	4,625	107	2,035	1,935	50	330	327	3	13
6,554	6,553	1	4,020	4,019	1	2,102	2,101	1	1,138	1,135	3	393	393	1	14
2,775	2,716	59	1,139	1,097	42	475	458	17	208	197	11	64	64	1	15
179,700	147,757	31,943	121,799	106,210	15,589	66,694	61,464	5,230	39,165	37,430	1,735	4,099	2,791	1,308	16
1,565	1,250	315	541	450	91	180	152	28	50	41	9	162	104	58	17
1,822	1,821	1	1,041	1,039	2	611	611	1	290	290	1	24	24	1	18
3,909	2,394	1,515	2,277	1,468	809	1,088	774	314	567	475	92	95	57	38	19
1,415	879	536	1,152	746	406	697	505	192	400	323	77	25	15	10	20
906	903	3	578	576	2	294	294	1	150	150	1	25	25	1	21
24,754	24,497	257	18,832	18,005	227	11,931	11,814	117	9,422	9,358	64	326	325	1	22
4,026	3,983	43	2,759	2,738	21	1,448	1,441	7	724	721	3	68	67	1	23
1,648	1,603	45	1,031	1,012	19	632	626	6	324	323	1	38	36	2	24
9,039	9,025	14	5,437	5,429	8	2,985	2,978	7	1,454	1,449	5	166	165	1	25
5,242	5,055	187	3,485	3,357	128	1,577	1,528	49	566	557	9	110	103	7	26
23,728	23,691	37	17,256	17,237	19	10,067	10,058	9	6,465	6,461	4	484	482	2	27
10,037	5,888	4,149	5,384	3,623	1,761	2,478	1,977	501	1,085	952	133	213	108	105	28
793	793	0	758	758	0	251	251	0	54	54	0	24	24	0	29
20,339	19,430	909	18,503	17,770	733	9,379	9,062	317	4,271	4,135	136	301	288	13	30
26,720	25,649	1,071	20,601	19,716	885	13,922	13,441	481	9,402	9,144	258	405	381	24	31
1,285	1,181	104	875	826	49	491	462	29	287	284	3	54	43	11	32
37,146	14,582	22,564	17,804	7,510	10,294	6,706	3,602	3,104	2,597	1,687	910	1,359	331	1,028	33
3,562	3,490	72	1,947	1,918	29	821	812	9	328	320	8	191	187	4	34
1,437	1,437	0	1,311	1,311	0	1,011	1,011	0	658	658	0	21	21	0	35
327	206	121	227	121	106	125	65	60	63	39	24	8	5	3	36
714,655	518,998	195,657	475,551	337,556	137,995	257,971	181,285	76,686	134,740	92,479	42,261	32,905	21,326	11,579	37
16,689	16,245	444	6,970	6,728	242	2,319	2,214	105	830	782	48	390	361	9	38
9,237	9,206	31	3,288	3,281	7	1,126	1,120	6	322	321	1	262	262	0	39
12,336	2,911	9,425	12,060	2,908	9,152	7,322	2,142	5,180	3,122	1,241	1,881	126	29	97	40
36,493	36,485	8	22,280	22,275	5	8,639	8,637	2	2,561	2,561	0	580	580	0	41
12,136	10,642	1,494	12,011	10,426	1,585	7,286	6,364	922	2,997	2,638	359	99	77	22	42
17,474	15,544	1,930	15,781	14,068	1,713	10,842	469	10,373	7,105	195	6,910	504	30	474	43
578	574	4	391	391	0	273	272	1	202	199	3	55	55	0	44
5,334	4,520	814	4,804	4,160	638	3,021	2,714	310	1,691	1,561	130	88	73	15	45
345,698	338,063	7,635	233,086	227,779	5,307	133,302	130,456	2,846	73,682	71,876	1,806	16,722	16,397	325	46
54,150	7,239	46,920	35,357	2,715	32,642	16,375	845	15,530	7,410	326	7,084	2,768	513	2,255	47
7,762	1,032	6,730	7,795	694	7,101	6,700	431	6,269	2,796	176	2,620	297	22	275	48
5,592	4,874	718	3,946	3,358	588	1,801	1,546	255	629	571	58	67	47	20	49
22,878	22,102	776	13,348	12,757	591	5,644	5,337	307	1,461	1,377	84	192	186	6	50
140,134	86,095	104,039	82,631	17,861	64,770	41,594	7,341	34,253	24,713	3,682	21,031	10,337	2,275	8,062	51
386	978	8	1,032	1,025	7	853	847	6	656	656	0	17	17	0	52
4,719	4,719	0	1,955	1,955	0	414	414	0	86	86	0	100	100	0	53
20,115	20,056	59	17,198	17,135	63	9,603	9,564	39	3,984	3,948	36	235	234	1	54
2,335	1,713	622	1,618	1,134	484	854	572	282	493	283	210	66	48	18	55
642,696	622,658	20,038	396,861	385,436	11,425	184,966	179,277	5,689	78,193	75,728	2,465	17,329	16,631	698	56
43,505	42,315	1,190	32,420	31,597	823	17,125	16,745	380	8,280	8,113	167	750	724	26	57
740	739	1	871	871	0	531	531	0	299	299	0	10	10	0	58
7,393	7,300	93	6,765	6,645	120	4,673	4,554	119	3,121	3,047	74	177	171	6	59
3,238	3,234	4	2,558	2,550	8	1,370	1,369	1	660	660	0	67	67	0	60
24,663	23,002	1,661	13,570	13,088	482	5,452	5,340	112	2,110	2,073	37	472	399	73	61
1,620	1,616	4	1,270	1,267	3	638	638	0	338	338	0	16	16	0	62
61,536	57,332	4,204	31,762	30,061	1,701	12,101	11,654	447	5,006	4,865	141	1,898	1,690	208	63
16,639	16,526	113	9,180	9,119	61	3,141	3,122	19	760	754	6	615	607	8	64
73,145	73,109	36	43,465	43,448	17	19,288	19,279	9	6,771	6,767	4	1,738	1,738	0	65
10,846	10,708	138	6,711	6,643	68	2,437	2,418	19	599	594	5	153	147	6	66
9,271	9,266	5	5,267	5,265	2	2,573	2,573	0	1,078	1,077	1	433	432	1	67
12,673	12,289	384	8,975	8,543	432	4,979	4,617	362	2,963	2,681	282	272	256	16	68
7,371	7,360	11	5,017	5,006	11	2,443	2,437	6	882	878	4	117	116	1	69
18,597	18,697	100	7,517	7,517	0	2,037	2,037	0	391	391	0	769	769	0	70
10,501	10,355	146	6,064	5,980	84	2,681	2,634	47	1,164	1,146	18	163	160	3	71
12,381	11,756	625	8,542	8,020	522	4,368	4,059	309	1,843	1,724	119	161	153	8	72
29,942	28,208	1,734	22,945	21,214	1,731	12,777	11,702	1,075	5,725	5,324	401	237	220	17	73
3,328	3,275	53	1,955	1,925	30	842	825	17	260	255	5	23	23	0	74
1,139	1,131	8	792	783	9	408	404	4	132	130	2	6	6	0	75

STATISTICS OF POPULATION.

TABLE 8.—TOTAL PERSONS 10 YEARS OF AGE AND OVER IN THE UNITED STATES ENGAGED

OCCUPATIONS.	10 TO 14 YEARS.			15 TO 24 YEARS.			25 TO 34 YEARS.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
Trade and transportation—Continued.									
76 Merchants and dealers, not specified (retail).....	667	596	71	43,157	41,195	1,962	125,611	122,482	3,129
77 Merchants and dealers (wholesale), importers, and shipping merchants.....				2,005	1,984	21	6,894	6,848	46
78 Messengers and errand and office boys.....	19,604	18,078	1,526	28,404	27,193	1,301	1,197	1,157	40
79 Newspaper carriers and newsboys.....	1,271	1,256	15	2,573	2,539	34	507	500	7
80 Officials of banks and of insurance, trade, transportation, trust, and other companies. (a)				3,822	3,760	62	11,141	11,063	78
81 Packers and shippers.....	711	338	373	10,690	5,894	4,796	6,397	5,491	906
82 Pilots.....				332	332		1,085	1,084	1
83 Porters and helpers (in stores and warehouses).....	787	748	39	7,613	7,415	198	6,876	6,841	55
84 Sailors (a).....	115	115		11,087	11,077	10	16,147	16,133	4
85 Salesmen and saleswomen.....	3,377	2,097	1,280	122,148	82,595	39,553	76,791	64,284	12,507
86 Steam railroad employes (not otherwise specified). (a)	1,161	1,131	30	102,359	101,845	514	141,324	140,927	397
87 Stenographers and typewriters.....	142	86	56	22,236	7,048	15,188	8,558	3,523	5,025
88 Street railway employes.....	87	87		8,592	8,586	6	16,233	16,231	2
89 Telegraph and telephone operators.....	319	248	71	28,669	22,838	5,811	16,388	14,487	1,901
90 Telegraph and telephone linemen and electric light and power company employes.....	97	78	19	4,241	3,671	570	4,215	4,145	70
91 Undertakers.....				1,255	1,246	9	2,415	2,405	10
92 Weighers, gaugers, and measurers.....	14	14		631	629	2	1,086	1,082	4
93 Other persons in trade and transportation.....	102	44	58	924	639	285	1,081	946	135
94 Manufacturing and mechanical industries.....	89,824	54,389	35,435	1,579,087	1,026,114	552,973	1,361,154	1,122,554	238,600
95 Agricultural implement makers (not otherwise classified). (a)	45	44	1	1,004	985	19	1,081	1,078	3
96 Apprentices (blacksmiths).....	216	215	1	3,705	3,704	1	205	205	
97 Apprentices (boot and shoe makers).....	152	151	1	816	790	26	29	29	
98 Apprentices (carpenters and joiners).....	452	449	3	5,995	5,989	6	197	197	
99 Apprentices (carriage and wagon makers).....	82	82		737	736	1	19	19	
100 Apprentices (dressmakers).....	688		688	3,500		3,500	96		96
101 Apprentices (leather curriers, etc.).....	52	52		350	350		12	12	
102 Apprentices (machinists).....	450	449	1	9,053	9,042	11	173	173	
103 Apprentices (masons).....	77	77		1,751	1,750	1	72	72	
104 Apprentices (milliners).....	149		149	1,015		1,015	33		33
105 Apprentices (painters).....	280	279	1	1,981	1,975	6	88	88	
106 Apprentices (plumbers).....	235	235		4,322	4,320	2	48	48	
107 Apprentices (printers).....	695	679	16	3,866	3,745	121	37	30	7
108 Apprentices (tailors).....	677	438	239	1,884	1,441	443	37	24	13
109 Apprentices (tinsmiths).....	258	256	2	1,697	1,696	1	41	41	
110 Apprentices (not otherwise specified).....	4,595	4,328	267	30,400	29,182	1,218	515	476	39
111 Artificial flower makers.....	352	32	320	1,769	160	1,609	493	126	373
112 Bakers.....	505	469	36	17,537	16,748	789	18,792	18,364	428
113 Basket makers.....	175	143	32	1,440	1,111	329	928	833	95
114 Blacksmiths.....	309	307	2	32,511	32,488	23	57,034	57,022	12
115 Bleachers, dyers, and scourers.....	225	176	49	4,169	3,184	985	3,933	3,570	363
116 Bone and ivory workers.....	18	13	5	596	448	148	430	393	37
117 Bookbinders.....	540	251	289	12,891	4,553	8,338	5,892	3,373	2,519
118 Boot and shoe makers and repairers.....	2,050	1,295	755	55,859	35,902	19,957	48,830	40,453	8,377
119 Bottlers and mineral and soda water makers.....	248	206	42	2,718	2,313	405	2,034	1,970	64
120 Box makers (paper).....	998	280	718	11,951	2,154	9,797	3,066	1,148	1,918
121 Box makers (wood).....	582	500	82	5,067	4,082	985	2,659	2,472	187
122 Brass workers (not otherwise specified) (a).....	264	223	41	6,884	6,213	671	5,203	5,055	148
123 Brewers and maltsters (a).....	110	103	7	2,919	2,881	38	7,506	7,502	4
124 Brick and tile makers and terra cotta workers (a).....	1,973	1,955	18	19,989	19,903	86	18,252	18,237	15
125 Britannia workers.....	7	6	1						
126 Broom and brush makers.....	429	346	83	256	206	50	279	241	38
127 Builders and contractors.....				3,498	2,064	834	2,563	2,406	157
128 Butchers.....	505	505		3,505	3,505		11,383	11,377	6
129 Butter and cheese makers.....	63	59	4	25,779	25,760	19	34,464	34,440	24
130 Button makers.....	108	42	66	3,284	3,090	194	4,149	4,065	84
131 Cabinet makers.....	135	135							
132 Candle, soap, and tallow makers.....	170	144	26	1,489	360		582	300	282
133 Carpenters and joiners.....	170	144	26	5,512	5,502	10	9,198	9,195	3
134 Carpet makers (a).....	457	457		1,249	921	328	724	695	29
135 Carriage and wagon makers (not otherwise classified). (a)	660	356	304	81,113	81,026	87	161,406	161,363	43
136 Charcoal, coke, and lime burners.....	83	75	8	9,087	3,656	5,431	4,529	2,591	1,938
137 Chemical works employes (a).....				4,437	4,320	117	7,152	7,116	36
138 Clock and watch makers and repairers.....	135	134	1	2,055	2,047	8	2,715	2,713	2
139 Compositors (a).....	58	28	30	1,370	644	726	983	797	186
140 Confectioners.....	180	134	46	8,857	5,805	3,052	7,342	6,118	1,224
141 Coopers.....	331	272	59	14,667	10,373	4,294	8,519	7,134	1,385
142 Copper workers.....	530	184	346	7,635	4,758	2,877	5,908	5,137	771
143 Corset makers.....	352	349	3	9,135	9,110	25	11,358	11,350	8
144 Cotton mill operatives (a).....	32	31	1	821	817	4	954	953	1
145 Distillers and rectifiers (a).....	224	33	191	4,247	296	3,951	1,380	203	1,177
146 Door, sash, and blind makers (a).....	17,040	8,295	8,745	91,201	35,013	56,188	34,275	17,005	17,270
147 Dressmakers.....	13	13		539	536	3	1,109	1,106	3
148 Electroplaters.....	80	79	1	1,781	1,773	8	1,309	1,308	1
149 Electrotypers and stereotypers (a).....	1,683	11	1,672	126,950	275	126,675	87,400	260	87,140
150 Engravers.....	54	49	5	1,074	996	78	791	767	24
151 Fertilizer makers (a).....	9	9		562	558	4	472	472	
152 Fish curers and packers (a).....	57	54	3	3,111	2,908	203	2,472	2,400	72
153 Gas works employes (a).....	6	6		118	115	3	247	247	
154 Glass workers.....	34	25	9	518	369	149	376	350	26
	33	33		809	804	5	1,571	1,571	
	2,555	2,422	133	14,446	13,112	1,334	8,612	8,432	180

a See explanatory notes in Table 2.

OCCUPATIONS.

91

IN EACH SPECIFIED OCCUPATION, CLASSIFIED BY SEX AND AGE PERIODS: 1890—Continued.

25 TO 44 YEARS.			45 TO 54 YEARS.			55 TO 64 YEARS.			65 YEARS AND OVER.			AGE UNKNOWN.		
Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
119,731	115,659	4,072	87,488	83,981	3,507	46,837	44,657	2,180	21,470	20,507	963	1,301	1,237	64
7,762	7,724	38	6,248	6,216	32	3,217	3,201	16	1,226	1,222	4	91	90	1
922	890	23	638	626	12	317	316	1	145	142	3	38	35	3
357	351	6	287	282	5	152	149	3	87	85	2	54	54	0
10,921	10,882	39	8,225	8,200	25	3,846	3,837	9	1,794	1,790	4	151	151	0
3,800	3,511	289	2,113	2,020	93	905	865	40	274	261	13	56	46	10
1,015	1,015	0	923	925	2	588	588	0	305	305	0	9	9	0
4,644	4,610	34	2,712	2,695	17	1,163	1,151	12	407	399	8	134	134	0
12,094	12,093	1	9,026	9,023	3	4,738	4,737	1	2,377	2,377	0	325	325	0
35,655	32,169	3,486	17,091	15,983	1,108	6,278	5,985	293	2,186	2,078	108	808	752	56
76,956	76,721	235	37,727	37,575	152	13,696	13,618	78	4,087	4,068	19	5,440	5,427	13
1,718	929	789	482	357	125	117	107	10	34	33	1	131	55	76
7,927	7,926	1	3,293	3,292	1	873	872	1	212	212	0	217	217	0
4,813	4,536	277	1,337	1,210	127	306	272	34	78	67	11	304	262	42
1,711	1,704	7	584	581	3	161	164	3	41	41	0	81	81	0
2,335	2,319	16	1,819	1,797	22	1,281	1,261	20	760	754	6	26	26	0
922	915	7	703	698	5	347	347	0	142	142	0	15	15	0
785	668	117	517	431	86	277	211	66	186	129	57	11	11	0
924,657	818,324	106,333	611,066	555,172	55,894	338,233	313,414	24,819	170,242	159,292	10,950	17,930	14,792	2,238
743	743	0	495	495	0	253	252	1	120	120	0	14	14	0
49	49	0	40	40	0	15	15	0	8	8	0	6	6	0
17	17	0	8	8	0	6	6	0	1	1	0	2	2	0
62	62	0	30	30	0	12	12	0	8	8	0	4	4	0
7	7	0	4	4	0	1	1	0	2	2	0	0	0	0
34	34	0	15	15	0	1	1	0	3	3	0	3	3	0
5	5	0	1	1	0	0	0	0	1	1	0	0	0	0
36	36	0	15	15	0	5	5	0	2	2	0	4	4	0
12	12	0	9	9	0	3	3	0	1	1	0	2	2	0
3	3	0	2	2	0	1	1	0	1	1	0	0	0	0
7	7	0	5	5	0	4	4	0	1	1	0	5	5	0
6	6	0	6	6	0	3	3	0	0	0	0	4	4	0
21	16	5	7	5	2	5	5	0	0	0	0	4	3	1
17	13	4	5	5	0	2	2	0	0	0	0	3	2	1
21	21	0	9	9	0	6	6	0	5	5	0	0	0	0
93	80	13	31	27	4	20	20	0	9	8	1	35	35	0
224	94	130	138	67	71	42	18	24	21	9	12	7	3	4
11,167	10,779	388	7,078	6,695	383	3,535	3,346	189	1,423	1,356	67	160	153	7
702	635	67	677	614	63	572	520	52	712	648	64	19	10	9
47,389	47,382	7	34,247	34,240	7	21,567	21,563	4	11,616	11,613	3	664	664	0
2,670	2,527	143	1,831	1,719	112	933	900	33	419	400	19	30	27	3
267	250	17	177	171	6	121	114	7	79	78	1	3	3	0
2,435	1,835	600	1,458	1,297	221	746	683	63	362	345	17	34	21	13
87,090	84,030	3,060	31,569	30,502	1,037	22,618	22,319	299	14,773	14,689	84	755	617	108
1,223	1,203	20	631	620	11	264	261	3	94	91	3	18	17	1
1,027	591	436	418	303	115	194	164	30	72	62	10	31	12	19
1,322	1,285	37	723	706	17	365	363	2	151	150	1	14	14	0
2,545	2,513	32	1,471	1,457	14	627	626	1	244	239	5	27	26	1
5,022	5,618	4	2,679	2,673	6	1,064	1,058	6	402	400	2	60	59	1
10,565	10,554	11	5,490	5,481	9	2,402	2,398	4	919	918	1	624	624	0
176	161	15	104	97	7	54	48	6	27	27	0	1	1	0
1,551	1,499	52	1,056	1,028	28	600	591	9	397	395	2	21	20	1
12,926	12,925	1	10,110	10,108	2	5,653	5,653	0	2,241	2,240	1	170	170	0
22,658	22,631	27	13,246	13,221	25	6,173	6,155	18	2,364	2,360	4	267	267	0
2,167	2,110	57	952	915	37	418	395	23	137	134	3	41	40	1
243	161	82	112	88	24	43	39	4	19	17	2	5	4	1
7,914	7,911	3	5,910	5,908	2	4,095	4,093	2	3,064	3,060	4	87	87	0
518	512	6	381	375	6	249	249	0	148	144	4	11	11	0
148,298	148,272	26	112,368	112,350	18	69,425	69,417	8	36,142	36,135	7	2,273	2,273	0
2,574	1,710	864	2,195	1,388	807	1,756	989	767	1,474	842	632	27	14	13
7,322	7,303	19	6,677	6,663	14	5,875	5,852	23	3,380	3,378	2	102	101	1
1,832	1,830	2	1,129	1,129	0	496	494	2	232	232	0	110	110	0
615	571	44	377	360	17	160	152	8	62	58	4	11	11	0
3,983	3,726	257	2,541	2,469	72	1,418	1,403	15	845	842	3	86	59	27
3,672	3,260	412	1,821	1,703	118	693	637	56	273	265	8	84	71	13
4,146	3,487	659	2,809	2,260	549	1,481	1,166	315	691	541	150	51	44	7
9,192	9,187	5	7,854	7,851	3	5,712	5,709	3	3,733	3,732	1	150	150	0
664	663	1	481	481	0	290	290	0	141	141	0	1	1	0
406	97	309	61	109	209	73	35	38	22	7	15	11	1	10
16,225	9,713	6,512	9,350	6,416	2,934	3,620	2,727	893	1,115	860	249	316	142	174
793	792	1	466	465	1	272	271	1	117	117	0	5	5	0
881	881	0	581	581	0	293	293	0	109	109	0	7	7	0
41,423	139	41,284	20,907	102	20,805	7,940	34	7,906	2,214	13	2,201	647	2	645
395	390	5	268	268	0	117	117	0	55	55	0	2	2	0
259	259	0	114	113	1	38	38	0	17	17	0	0	0	0
1,318	1,302	16	765	762	3	384	381	3	194	192	2	19	18	1
176	174	2	110	110	0	52	52	0	18	17	1	5	5	0
190	185	5	77	73	4	63	61	2	10	10	0	2	2	0
1,328	1,328	0	940	940	0	890	890	0	135	135	0	18	18	0
4,923	4,886	37	2,458	2,436	22	977	973	4	215	215	0	96	96	0

TABLE 8.—TOTAL PERSONS 10 YEARS OF AGE AND OVER IN THE UNITED STATES ENGAGED

OCCUPATIONS.	10 TO 14 YEARS.			15 TO 24 YEARS.			25 TO 34 YEARS.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
Manufacturing and mechanical industries—Cont'd.									
155 Glove makers.....	89	22	67	2,814	811	2,003	1,614	753	861
156 Gold and silver workers.....	266	170	96	7,545	5,223	2,322	5,670	5,006	664
157 Gunsmiths, locksmiths, and bell hangers.....	71	66	5	2,136	2,066	70	2,218	2,210	8
158 Hair workers.....	78	45	33	470	209	261	281	169	112
159 Harness and saddle makers and repairers.....	244	212	32	9,413	8,863	550	10,986	10,854	132
160 Hat and cap makers.....	296	154	142	9,121	5,082	4,039	6,896	5,323	1,573
161 Hosiery and knitting mill operatives (a).....	2,089	600	1,489	18,598	4,414	14,184	5,333	1,958	3,375
162 Iron and steel workers (a).....	2,127	1,996	131	44,915	43,251	1,664	44,967	44,629	338
163 Lace and embroidery makers.....	188	22	166	2,966	261	2,705	1,101	236	865
164 Lead and zinc workers.....	73	64	9	1,492	1,339	153	1,438	1,410	28
165 Leather curriers, dressers, finishers, and tanners.....	285	266	19	9,735	9,534	201	11,877	11,832	45
166 Machinists.....	346	341	5	47,441	47,354	87	55,303	55,275	28
167 Manufacturers and officials of manufacturing companies.....				7,214	7,198	46	24,581	24,510	71
168 Marble and stone cutters.....	185	185		12,834	12,801	33	19,290	19,276	14
169 Masons (brick and stone).....	217	217		24,567	24,548	19	40,966	40,956	10
170 Meat and fruit packers, canners, and preservers (a).....	242	122	120	1,925	1,083	842	1,498	1,297	201
171 Mechanics (not otherwise specified).....	31	31		2,658	2,653	5	3,993	3,987	6
172 Metal workers (not otherwise specified).....	239	201	38	5,503	4,911	592	5,424	5,282	142
173 Mill and factory operatives (not specified) (a).....	5,728	2,943	2,785	45,520	20,370	25,150	20,871	13,197	7,674
174 Millers (flour and grist).....	132	130	2	7,815	7,283	532	13,841	13,824	17
175 Milliners.....	496	7	489	26,940	125	26,815	18,404	89	16,315
176 Model and pattern makers.....	22	22		2,197	2,115	82	2,528	2,492	36
177 Molders.....	194	193	1	19,204	19,169	35	23,158	23,153	5
178 Musical instrument makers (not otherwise specified) (a).....	7	7		191	174	17	184	179	5
179 Nail and tack makers (a).....	237	225	12	2,040	1,692	348	1,047	972	75
180 Oil well employes.....	21	21		2,045	2,041	4	2,758	2,756	2
181 Oil works employes.....	85	82	3	1,390	1,369	21	1,650	1,642	8
182 Painters, glaziers, and varnishers.....	924	891	33	55,262	54,347	915	68,628	68,434	194
183 Paper hangers.....	74	74		3,815	3,805	10	3,739	3,727	12
184 Paper mill operatives.....	519	277	242	12,053	6,466	5,587	7,342	5,615	1,727
185 Photographers.....	78	65	13	5,674	4,470	1,204	6,392	5,761	631
186 Piano and organ makers and tuners (a).....	131	121	10	4,146	3,943	203	4,023	3,963	60
187 Plasterers.....	70	70		6,875	6,870	5	10,603	10,599	4
188 Plumbers and gas and steam fitters.....	194	192	2	24,945	24,917	28	16,567	16,559	8
189 Potters.....	460	330	130	5,768	4,231	1,537	4,177	3,970	207
190 Powder and cartridge makers.....	33	18	15	576	268	310	347	275	72
191 Printers, lithographers, and pressmen (a).....	1,261	1,151	110	39,999	36,093	3,906	24,000	22,863	1,137
192 Print works operatives (a).....	262	202	60	3,001	1,949	1,052	1,604	1,323	281
193 Publishers of books, maps, and newspapers.....				600	576	24	2,027	2,007	20
194 Roofers and slaters.....	20	20		1,725	1,725		2,124	2,123	1
195 Rope and cordage makers.....	500	291	209	4,220	1,937	2,283	1,400	981	419
196 Rubber factory operatives.....	256	131	125	8,063	3,528	4,535	4,377	3,029	1,348
197 Sail, awning, and tent makers.....	18	11	7	587	541	146	723	668	55
198 Salt works employes.....	32	28	4	489	412	77	531	516	15
199 Saw and planing mill employes (a).....	1,897	1,869	28	42,289	42,102	187	44,076	44,038	38
200 Seamstresses (a).....	2,815	111	2,704	67,624	1,450	66,174	36,910	1,140	35,770
201 Sewing machine makers (not otherwise classified) (a).....	15	14	1	299	277	22	249	245	4
202 Sewing machine operators (a).....	163	31	132	4,403	507	3,896	1,761	367	1,394
203 Ship and boat builders.....	37	37		2,402	2,401	1	4,197	4,197	
204 Shirt, collar, and cuff makers (a).....	515	74	441	11,849	1,942	9,907	5,286	1,662	3,624
205 Silk mill operatives (a).....	2,426	871	1,555	20,946	5,761	15,185	6,420	3,548	2,872
206 Starch makers.....	44	27	17	321	195	126	159	142	17
207 Steam boiler makers.....	48	48		5,811	5,806	5	7,329	7,328	1
208 Stove, furnace, and grate makers (a).....	82	81	1	2,587	2,572	15	2,958	2,955	3
209 Straw workers.....	13	4	9	1,502	331	1,171	1,132	348	784
210 Sugar makers and refiners.....	14	14		460	458	2	904	904	
211 Tailors and tailoresses (a).....	3,751	969	2,782	61,398	27,511	33,887	48,247	34,755	13,492
212 Tinners and tinware makers.....	647	551	96	17,430	16,790	640	16,166	16,059	107
213 Tobacco and cigar factory operatives.....	5,270	3,132	2,138	46,087	27,995	18,092	29,701	25,328	4,373
214 Tool and cutlery makers (not otherwise classified) (a).....	219	201	18	5,177	4,786	391	5,195	5,119	76
215 Trunk, valise, leather-case, and pocket-book makers.....	255	207	48	2,701	2,102	599	1,465	1,349	116
216 Umbrella and parasol makers.....	83	51	32	1,749	542	1,207	768	380	388
217 Upholsterers.....	239	207	32	8,486	7,565	921	7,348	6,938	410
218 Well borers.....				846			1,804	1,803	1
219 Wheelwrights.....	33	33		1,585	1,584	1	2,532	2,532	
220 Whitewashers.....	14	14		349	346	3	681	681	
221 Wire workers.....	286	245	41	5,017	4,173	844	3,695	3,546	149
222 Wood workers (not otherwise specified).....	1,706	1,468	238	23,235	20,623	2,612	18,387	17,839	548
223 Woolen mill operatives (a).....	4,079	2,036	2,043	41,804	18,202	23,602	18,988	11,965	7,023
224 Other persons in manufacturing and mechanical industries.....	2,878	1,905	973	29,132	18,068	11,064	18,908	16,640	2,268

a See explanatory notes in Table 2.

OCCUPATIONS.

93

IN EACH SPECIFIED OCCUPATION, CLASSIFIED BY SEX AND AGE PERIODS: 1890—Continued.

35 TO 44 YEARS.			45 TO 54 YEARS.			55 TO 64 YEARS.			65 YEARS AND OVER.			AGE UNKNOWN.		
Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
984	555	429	573	369	204	240	162	78	92	66	26	10	3	7
3,252	3,072	180	2,070	2,015	55	985	981	24	431	428	3	44	39	5
1,654	1,651	3	1,275	1,273	2	963	967	1	808	808	-----	28	28	-----
204	124	80	131	82	49	56	37	19	31	16	15	3	2	1
8,907	8,844	63	6,953	6,927	26	4,373	4,359	14	2,491	2,477	14	113	111	2
3,686	3,164	522	2,297	2,039	258	1,142	1,021	121	521	497	24	54	39	15
1,903	897	1,006	905	507	398	385	235	150	278	113	165	64	21	43
27,301	27,172	129	15,962	15,914	48	6,617	6,602	15	2,318	2,310	8	714	711	3
486	154	332	271	81	190	145	45	100	90	19	71	9	3	6
876	866	10	464	461	3	197	197	-----	66	60	-----	10	10	-----
7,824	7,807	17	5,312	5,307	5	2,775	2,773	2	1,417	1,414	3	107	107	-----
35,659	35,652	7	22,789	22,782	7	10,773	10,770	3	4,216	4,215	1	563	562	1
28,395	28,306	89	22,527	22,448	79	12,713	12,684	29	5,861	5,845	16	289	289	-----
14,789	14,785	4	8,032	8,027	5	3,860	3,860	-----	1,787	1,785	2	293	293	-----
38,612	38,608	4	27,632	27,631	1	16,726	16,723	3	9,522	9,519	3	676	676	-----
993	897	96	627	535	92	295	263	32	105	84	21	145	138	7
3,603	3,602	1	2,620	2,620	-----	1,541	1,540	1	967	967	-----	72	72	-----
2,863	2,817	46	1,593	1,570	23	772	764	8	260	255	5	40	37	3
10,430	7,376	3,054	5,846	4,337	1,509	3,042	2,019	1,023	1,883	1,173	710	276	188	88
12,067	12,048	19	9,524	9,513	11	6,006	5,894	12	3,813	3,812	1	143	143	-----
8,429	65	8,364	5,125	57	5,068	2,069	33	2,036	830	18	812	189	1	188
2,073	2,057	16	1,619	1,614	5	1,124	1,123	1	714	713	1	23	23	-----
12,650	12,649	1	6,966	6,964	2	2,968	2,967	1	981	980	1	168	168	-----
109	109	-----	88	88	-----	39	38	1	32	32	-----	2	2	-----
639	614	25	357	346	11	171	168	3	76	76	-----	16	13	3
2,515	2,513	2	1,311	1,309	2	312	312	-----	84	84	-----	101	101	-----
1,313	1,311	2	804	802	2	265	264	1	77	77	-----	40	40	-----
48,215	48,149	66	28,100	28,061	39	12,955	12,945	10	5,047	5,039	8	781	780	1
2,562	2,553	9	1,342	1,328	14	588	581	7	217	215	2	32	32	-----
4,118	3,363	755	2,415	2,006	409	974	810	164	332	274	58	64	45	19
4,093	3,860	234	2,316	2,228	88	1,065	1,038	27	333	326	7	89	82	7
2,823	2,803	20	1,879	1,866	13	1,074	1,060	8	568	567	1	39	38	1
9,942	9,937	5	6,354	6,354	-----	3,510	3,518	1	1,446	1,446	-----	193	193	-----
8,871	8,867	4	4,033	4,031	2	1,490	1,490	-----	369	369	-----	138	138	-----
2,317	2,259	58	1,258	1,221	37	630	617	13	277	271	6	41	40	1
225	207	18	123	119	4	56	54	2	20	19	1	5	5	-----
11,065	11,291	374	6,144	5,993	151	2,564	2,522	42	1,016	1,005	11	244	236	8
902	821	81	530	491	39	268	250	18	105	98	7	29	28	1
1,700	1,083	17	1,260	1,252	8	480	477	3	201	199	2	16	16	-----
1,595	1,593	2	955	955	-----	452	452	-----	158	158	-----	14	14	-----
645	549	96	534	493	41	339	308	31	239	216	23	124	121	3
1,812	1,501	311	1,034	944	90	440	418	22	143	131	12	37	24	13
572	549	23	649	635	14	381	378	3	216	213	3	11	11	-----
370	364	6	234	223	1	86	86	-----	32	32	-----	1	1	-----
24,820	21,804	16	12,920	12,910	10	5,042	5,041	1	1,620	1,618	2	973	973	-----
19,820	633	19,187	12,201	387	11,814	6,708	210	6,498	3,572	65	3,507	394	5	389
157	155	2	101	100	1	39	39	-----	15	15	-----	5	5	-----
502	116	386	208	62	146	64	15	49	17	6	11	8	-----	8
4,498	4,497	1	4,948	4,948	-----	4,185	4,185	-----	2,307	2,306	1	377	377	-----
2,043	801	1,242	916	416	500	341	163	178	120	65	55	37	9	28
2,623	1,931	692	1,566	1,325	241	624	553	71	209	185	24	41	18	23
102	91	11	58	52	6	46	45	1	16	14	2	-----	-----	-----
4,147	4,147	-----	2,522	2,522	-----	1,067	1,067	-----	334	334	-----	81	81	-----
1,093	1,093	-----	998	997	1	427	427	-----	165	165	-----	22	22	-----
545	260	279	307	187	120	121	74	47	39	31	8	7	2	5
644	642	2	393	393	-----	134	134	-----	56	56	-----	11	11	-----
27,536	21,269	6,267	19,720	15,926	3,794	15,004	12,822	2,182	9,355	8,073	1,282	389	266	123
10,777	10,742	35	6,000	5,987	13	2,964	2,959	5	1,332	1,331	1	172	176	2
16,934	14,835	2,099	8,683	7,824	859	3,461	3,190	271	1,167	1,056	111	322	274	48
3,530	3,502	28	2,249	2,239	10	1,142	1,134	8	442	437	5	31	31	-----
884	848	36	526	516	10	314	306	8	127	123	4	7	7	-----
395	225	170	226	141	85	120	78	42	58	48	10	4	-----	4
4,568	4,374	194	2,711	2,611	100	1,458	1,401	57	789	762	27	67	60	7
1,278	1,278	-----	641	641	-----	217	217	-----	49	49	-----	19	19	-----
2,063	2,663	-----	2,498	2,498	-----	1,979	1,979	-----	1,523	1,523	-----	43	43	-----
803	861	2	889	889	-----	683	682	1	474	471	3	43	43	-----
1,824	1,786	38	934	929	5	379	378	1	143	143	-----	41	38	3
11,525	11,338	187	6,796	6,718	78	3,665	3,604	61	1,830	1,848	32	166	162	4
9,381	6,988	2,343	5,935	4,957	978	2,631	2,327	304	1,116	1,000	116	225	163	62
12,163	11,331	832	7,699	7,284	415	3,801	3,592	209	1,788	1,681	107	345	305	40

STATISTICS OF POPULATION.

TABLE 9.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY SEX AND CONJUGAL CONDITION, BY STATES AND TERRITORIES: 1890.

ALL OCCUPATIONS.

STATES AND TERRITORIES.	SINGLE AND UNKNOWN.			MARRIED.			WIDOWED.			DIVORCED.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
The United States	10,112,796	7,378,971	2,733,825	11,264,340	10,749,080	515,260	1,278,725	648,457	630,268	79,800	44,582	35,218
North Atlantic division	3,325,622	2,180,845	1,144,777	3,280,140	3,154,577	125,563	348,854	198,362	150,492	16,844	9,257	7,587
Maine	102,892	69,533	33,359	138,025	132,255	5,770	14,458	9,241	5,217	1,721	1,004	717
New Hampshire	72,005	45,396	26,609	81,573	75,632	5,941	9,815	6,083	3,732	1,310	734	576
Vermont	50,908	36,046	14,862	69,467	67,191	2,276	7,532	5,043	2,489	864	524	340
Massachusetts	500,761	289,306	211,455	428,668	401,523	27,145	50,291	27,078	23,213	2,724	1,259	1,465
Rhode Island	81,357	46,434	34,923	66,349	62,138	4,211	7,413	4,231	3,182	759	361	398
Connecticut	155,634	97,200	58,434	144,427	138,737	5,690	15,601	8,937	6,664	1,352	760	592
New York	1,146,232	735,734	410,498	1,157,566	1,114,598	42,968	128,097	69,305	58,792	3,830	2,148	1,682
New Jersey	264,407	175,243	89,164	277,463	268,214	9,249	28,261	15,672	12,589	607	338	269
Pennsylvania	951,426	685,953	265,473	916,602	894,289	22,313	87,386	52,772	34,614	3,677	2,129	1,548
South Atlantic division	1,367,971	964,877	403,094	1,528,259	1,384,764	143,495	215,442	79,453	135,989	6,384	2,693	3,691
Delaware	29,461	21,773	7,688	31,474	30,273	1,201	3,275	1,854	1,421	76	38	33
Maryland	181,317	124,328	56,989	180,591	172,694	13,897	24,765	11,203	13,562	504	290	301
District of Columbia	46,719	28,184	18,535	44,889	38,010	6,879	9,175	2,655	6,520	336	143	193
Virginia	244,552	177,586	66,966	267,510	251,063	16,447	38,787	16,348	22,439	990	476	514
West Virginia	85,816	70,476	15,340	127,184	125,269	1,915	10,214	6,015	4,199	574	321	253
North Carolina	232,937	160,538	72,399	266,339	248,329	18,010	37,231	12,960	24,271	856	344	512
South Carolina	190,572	122,190	68,382	217,832	178,586	38,246	31,852	9,448	22,404	598	199	399
Georgia	304,446	219,777	84,669	313,247	273,707	39,540	49,403	14,756	34,647	1,617	550	1,067
Florida	52,151	40,025	12,126	73,193	65,838	7,360	10,740	4,214	6,526	743	332	411
North Central division	3,250,084	2,468,253	770,831	4,013,505	3,935,462	78,043	366,963	216,901	150,062	34,286	20,533	13,753
Ohio	539,402	395,545	143,857	666,467	653,900	12,567	61,507	36,115	25,482	5,320	3,049	2,271
Indiana	282,765	222,106	60,659	397,703	391,018	6,685	39,142	23,372	15,770	4,448	2,660	1,788
Illinois	616,952	459,760	157,192	668,542	655,330	13,212	63,196	35,299	27,897	4,869	2,860	2,009
Michigan	296,971	223,727	73,244	424,595	415,756	8,839	33,929	21,617	12,312	4,080	2,497	1,583
Wisconsin	254,920	188,088	66,832	294,784	290,243	4,541	24,269	15,447	8,822	2,317	1,451	866
Minnesota	226,224	171,913	54,311	223,004	218,659	4,345	18,291	11,914	6,377	1,567	975	592
Iowa	220,199	207,874	12,325	330,232	324,852	5,380	28,409	16,931	11,478	2,995	1,761	1,234
Missouri	362,144	286,720	75,424	465,792	454,492	11,300	52,993	28,328	24,665	3,450	2,014	1,436
North Dakota	33,166	27,039	6,127	31,808	31,075	733	2,611	1,716	895	186	126	60
South Dakota	48,827	40,364	8,463	59,787	58,574	1,213	4,889	3,297	1,592	590	400	190
Nebraska	162,250	129,625	32,625	189,373	185,554	3,819	14,511	9,054	5,457	1,926	1,183	743
Kansas	165,264	135,492	29,772	261,418	256,009	5,409	23,126	13,781	9,345	2,538	1,557	981
South Central division	1,431,951	1,100,638	331,313	1,901,555	1,750,907	150,648	288,235	115,092	173,143	14,073	6,408	7,665
Kentucky	228,442	180,152	48,290	317,539	305,879	11,660	42,001	19,759	22,242	2,342	1,156	1,186
Tennessee	209,236	167,320	41,916	299,073	285,706	13,367	43,049	19,058	23,991	2,395	1,087	1,308
Alabama	226,425	157,134	69,291	270,915	240,475	30,440	42,506	13,324	29,182	1,756	694	1,062
Mississippi	181,310	123,989	57,321	238,236	199,966	38,270	41,651	13,406	28,245	1,542	570	972
Louisiana	179,927	126,551	53,376	205,632	175,333	30,299	36,102	11,799	24,303	1,413	610	803
Texas	268,314	229,560	38,754	371,985	355,606	16,379	52,951	23,656	29,295	2,958	1,371	1,587
Oklahoma	7,658	7,079	579	11,923	11,770	153	1,204	905	299	121	95	26
Arkansas	130,639	108,853	21,786	186,252	176,172	10,080	28,771	13,185	15,586	1,546	825	721
Western division	728,168	644,356	83,810	540,881	523,370	17,511	59,231	38,649	20,582	8,213	5,691	2,522
Montana	46,740	43,633	3,107	22,925	22,145	780	2,194	1,567	627	364	242	122
Wyoming	18,982	17,635	1,347	10,420	10,154	266	1,043	812	231	185	135	50
Colorado	105,062	93,064	12,998	76,417	73,652	2,765	8,490	5,387	3,103	1,074	693	381
New Mexico	21,026	19,033	1,993	29,529	28,860	669	3,282	2,128	1,154	314	100	118
Arizona	15,360	14,614	746	9,595	9,293	302	1,334	844	490	127	96	31
Utah	21,868	25,055	4,813	38,954	38,049	905	2,731	1,520	1,211	348	201	147
Nevada	14,000	12,880	1,120	8,174	7,836	338	1,022	718	304	219	157	62
Idaho	18,888	17,792	1,096	14,690	14,275	415	1,357	1,025	332	237	186	51
Washington	93,836	86,375	7,461	63,940	61,961	1,979	6,005	4,543	1,462	915	702	213
Oregon	64,124	56,761	7,363	55,967	54,436	1,531	5,747	4,098	1,649	943	693	250
California	299,382	257,516	41,866	215,270	207,709	7,561	26,026	16,007	10,019	3,487	2,390	1,097

TABLE 9.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY SEX AND CONJUGAL CONDITION, BY STATES AND TERRITORIES: 1890—Cont'd.

AGRICULTURE, FISHERIES, AND MINING.

STATES AND TERRITORIES.	SINGLE AND UNKNOWN.			MARRIED.			WIDOWED.			DIVORCED.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
The United States..	3,342,058	3,046,910	295,148	5,122,433	4,969,477	152,956	524,121	298,573	225,548	21,724	18,553	5,871
North Atlantic division..	444,156	439,946	4,210	750,682	748,160	2,522	68,304	54,257	13,947	2,808	2,639	169
Maine	24,226	24,129	197	55,939	55,730	209	5,584	4,547	1,037	447	425	22
New Hampshire.....	13,048	12,944	104	26,467	26,380	87	3,181	2,764	417	286	272	14
Vermont.....	17,924	17,804	120	34,676	34,578	98	3,303	2,881	422	280	271	9
Massachusetts.....	31,431	31,178	253	44,447	44,297	150	5,013	4,485	528	209	203	6
Rhode Island.....	4,503	4,448	55	7,219	7,200	19	806	608	108	78	76	2
Connecticut	17,484	17,346	138	27,774	27,698	76	3,183	2,643	540	235	222	13
New York.....	122,541	121,108	1,433	262,510	261,440	1,070	24,469	18,420	6,049	612	561	51
New Jersey.....	28,206	27,923	283	42,579	42,431	148	4,036	3,050	977	68	64	4
Pennsylvania.....	184,693	183,066	1,627	249,071	248,406	665	18,729	14,860	3,869	593	545	48
South Atlantic division..	699,339	568,093	131,246	911,288	852,276	59,012	101,171	45,116	56,055	2,520	1,347	1,173
Delaware	7,648	7,563	85	10,217	10,182	35	823	637	186	14	13	1
Maryland.....	42,940	41,907	943	57,273	56,838	435	5,096	3,754	1,342	87	80	7
District of Columbia..	764	748	16	1,010	997	13	112	84	28			
Virginia.....	102,134	94,150	7,984	153,219	151,228	1,991	16,063	9,398	6,665	329	233	96
West Virginia.....	39,762	39,127	635	83,886	83,573	313	5,991	3,745	2,246	248	186	62
North Carolina	152,669	118,615	34,054	198,189	190,353	7,836	23,054	9,514	13,540	447	229	218
South Carolina	140,584	93,781	46,803	166,520	138,822	27,698	20,506	6,815	13,691	407	149	258
Georgia.....	189,886	153,799	36,087	202,532	184,360	18,172	24,986	9,138	15,848	724	304	420
Florida.....	22,952	18,813	4,639	38,442	35,923	2,519	4,540	2,031	2,509	264	153	111
North Central division...	1,118,284	1,109,357	8,927	1,940,215	1,932,759	7,456	170,054	107,839	62,215	10,550	8,878	1,672
Ohio	134,223	132,801	1,422	270,442	260,640	802	23,119	15,297	7,822	1,235	1,068	167
Indiana.....	110,170	109,304	866	200,568	199,981	587	18,583	11,866	6,717	1,248	1,070	178
Illinois.....	176,664	175,424	1,240	253,256	252,348	908	25,313	14,720	10,593	1,255	1,067	188
Michigan.....	90,883	90,138	745	201,363	200,524	839	14,986	10,004	4,982	1,269	1,132	137
Wisconsin.....	85,989	85,227	762	142,546	141,901	645	12,814	8,393	4,421	750	647	103
Minnesota.....	75,182	74,555	627	110,895	110,429	466	8,887	6,221	2,666	458	391	67
Iowa.....	126,012	125,278	734	187,331	186,643	688	16,022	9,546	6,476	1,025	829	196
Missouri.....	130,198	129,089	1,109	248,428	247,491	937	24,958	14,768	10,190	1,081	897	184
North Dakota.....	19,063	18,865	198	23,116	22,980	136	1,675	1,202	473	101	84	17
South Dakota.....	25,432	25,201	231	41,941	41,695	246	3,188	2,295	893	278	238	40
Nebraska.....	59,757	59,327	430	103,022	102,617	405	7,105	4,626	2,479	690	547	143
Kansas.....	84,711	84,148	563	157,307	156,510	797	13,404	8,301	5,103	1,160	908	252
South Central division...	857,412	707,845	149,567	1,319,056	1,236,189	82,867	164,336	75,457	88,879	6,400	3,791	2,609
Kentucky	102,895	100,817	2,078	201,633	200,816	817	20,770	11,958	8,812	787	621	166
Tennessee.....	113,533	103,415	10,118	199,926	196,620	3,306	22,642	12,474	10,168	785	561	224
Alabama.....	155,223	110,307	44,916	198,932	179,911	19,021	25,670	9,167	16,503	1,027	476	551
Mississippi.....	136,812	96,359	40,453	193,595	163,782	29,813	28,718	10,151	18,567	924	392	532
Louisiana.....	99,092	71,980	27,103	124,823	106,651	18,172	16,187	6,302	9,885	628	324	304
Texas.....	151,582	138,695	12,887	249,027	243,397	5,630	30,361	15,233	15,128	1,348	815	533
Oklahoma.....	4,500	4,426	74	8,531	8,504	27	830	631	199	67	56	11
Arkansas.....	93,775	81,837	11,938	142,589	136,568	6,021	19,158	9,541	9,617	834	546	288
Western division.....	222,867	221,669	1,198	201,192	200,093	1,099	20,256	15,804	4,452	2,446	2,198	248
Montana.....	16,022	16,000	22	8,781	8,749	32	867	735	132	110	100	10
Wyoming.....	6,603	6,592	11	4,200	4,182	18	342	304	38	56	50	6
Colorado.....	30,391	30,271	120	26,105	25,971	134	2,436	2,019	417	311	287	24
New Mexico.....	9,428	9,360	68	15,660	15,025	635	1,441	1,128	313	82	77	5
Arizona.....	5,856	5,834	22	4,158	4,146	12	467	401	66	47	46	1
Utah.....	8,487	8,424	63	14,511	14,389	122	1,006	637	369	79	60	19
Nevada.....	6,512	6,451	61	3,575	3,555	20	383	334	49	66	64	2
Idaho.....	9,374	9,347	27	8,605	8,561	44	726	605	121	109	99	10
Washington.....	22,376	22,267	109	23,148	22,993	155	2,127	1,762	365	292	269	23
Oregon.....	21,789	21,661	128	26,193	26,067	126	2,643	2,039	604	355	313	42
California.....	86,029	85,462	567	66,256	65,855	401	7,818	5,840	1,978	939	833	106

STATISTICS OF POPULATION.

TABLE 9.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY SEX AND CONJUGAL CONDITION, BY STATES AND TERRITORIES: 1890—Cont'd.

PROFESSIONAL SERVICE.

STATES AND TERRITORIES.	SINGLE AND UNKNOWN.			MARRIED.			WIDOWED.			DIVORCED.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
The United States.	479,093	205,195	273,898	421,892	400,243	21,649	39,529	25,192	14,337	3,819	2,016	1,803
North Atlantic division..	160,497	64,948	95,549	125,985	119,709	6,276	12,144	7,715	4,429	842	425	417
Maine	7,513	1,680	5,833	4,419	4,084	335	375	220	155	57	23	31
New Hampshire	3,988	1,017	2,971	2,551	2,330	221	253	165	88	39	17	22
Vermont	3,740	738	3,002	2,297	2,136	161	211	139	72	28	16	12
Massachusetts	24,058	9,012	15,046	17,225	16,130	1,095	1,811	1,048	763	153	58	95
Rhode Island	2,894	1,126	1,768	2,285	2,165	120	233	142	91	34	14	20
Connecticut	6,921	2,391	4,530	5,035	4,797	238	471	286	185	58	35	23
New York	60,677	26,615	34,062	49,480	46,650	2,830	4,971	3,092	1,879	248	127	121
New Jersey	10,791	4,700	6,091	10,603	10,254	349	925	619	306	44	27	17
Pennsylvania	39,915	17,669	22,246	32,090	31,163	927	2,894	2,004	890	181	108	73
South Atlantic division..	42,301	20,554	21,747	45,126	43,042	2,084	4,740	3,075	1,665	194	120	74
Delaware	1,156	496	660	962	939	23	89	68	21	6	2	4
Maryland	7,491	3,501	3,990	6,403	6,185	218	667	451	216	15	7	8
District of Columbia.	3,207	1,870	1,337	3,659	3,508	151	413	292	121	29	19	10
Virginia	8,900	3,915	4,985	7,832	7,428	404	925	594	331	38	28	10
West Virginia	4,463	2,391	2,072	3,898	3,777	121	280	216	64	21	13	8
North Carolina	5,332	2,556	2,776	6,336	6,016	320	614	390	224	14	9	5
South Carolina	3,482	1,596	1,886	4,249	4,081	168	455	289	166	7	4	3
Georgia	6,412	3,233	3,179	8,591	8,107	484	933	550	383	33	17	16
Florida	1,858	996	862	3,196	3,001	195	364	225	139	31	21	10
North Central division...	196,557	75,552	121,005	160,080	151,985	8,095	12,899	8,282	4,617	1,811	911	900
Ohio	32,217	13,987	18,230	27,319	26,285	1,034	2,111	1,381	730	266	130	136
Indiana	16,733	7,500	9,233	16,300	15,664	636	1,305	846	459	181	94	87
Illinois	33,035	13,444	19,591	27,504	26,146	1,358	2,338	1,463	875	245	123	122
Michigan	17,307	5,678	11,629	14,788	13,935	853	1,171	719	452	224	113	111
Wisconsin	14,545	4,542	10,003	8,922	8,485	437	693	453	240	118	65	53
Minnesota	13,327	5,425	7,902	8,679	8,178	501	655	404	251	106	53	53
Iowa	23,338	5,816	17,522	13,235	12,438	797	1,013	632	381	176	76	100
Missouri	18,870	8,805	10,065	18,680	17,881	799	1,749	1,191	558	166	86	80
North Dakota	1,782	768	1,014	1,165	1,096	69	97	72	25	14	9	5
South Dakota	3,183	1,120	2,063	2,595	2,354	241	184	120	64	33	19	14
Nebraska	10,303	3,944	6,359	8,464	7,913	551	636	370	266	136	67	69
Kansas	11,917	4,523	7,394	12,429	11,610	819	947	631	316	146	76	70
South Central division...	47,119	25,327	21,792	60,057	57,132	2,925	6,677	4,224	2,453	410	231	179
Kentucky	10,565	5,333	5,232	10,419	10,017	402	1,083	736	347	83	49	34
Tennessee	8,097	4,425	3,672	10,293	9,822	471	994	692	302	66	44	22
Alabama	4,908	2,688	2,220	6,310	6,048	262	709	431	278	25	13	12
Mississippi	4,684	2,081	2,603	5,501	5,111	390	616	382	264	31	13	18
Louisiana	4,244	2,181	2,063	4,828	4,543	285	904	444	460	50	28	22
Texas	10,698	6,220	4,478	15,693	14,904	789	1,627	1,044	583	105	58	47
Oklahoma	402	267	135	560	534	26	48	37	11	7	5	2
Arkansas	3,521	2,132	1,389	6,453	6,153	300	666	458	208	43	21	22
Western division	32,619	18,814	13,805	30,644	23,375	2,269	3,069	1,896	1,173	562	329	233
Montana	1,547	1,068	479	1,233	1,154	79	93	60	33	27	12	15
Wyoming	658	400	198	488	455	33	43	29	14	14	9	5
Colorado	4,729	2,888	1,841	4,595	4,253	342	432	277	155	74	40	34
New Mexico	673	414	259	934	900	34	94	66	28	11	6	5
Arizona	506	387	119	533	499	34	47	37	10	9	5	4
Utah	1,270	715	555	1,441	1,348	93	110	59	51	22	13	9
Nevada	574	292	282	409	386	23	61	42	19	16	10	6
Idaho	611	385	226	612	562	50	58	43	13	14	12	2
Washington	4,165	2,944	1,221	3,734	3,422	312	263	191	72	52	41	11
Oregon	3,461	1,921	1,540	3,140	2,867	273	272	187	85	53	32	21
California	14,423	7,340	7,083	13,525	12,529	996	1,596	903	693	270	149	121

TABLE 9.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY SEX AND CONJUGAL CONDITION, BY STATES AND TERRITORIES: 1890—Cont'd.**DOMESTIC AND PERSONAL SERVICE.**

STATES AND TERRITORIES.	SINGLE AND UNKNOWN.			MARRIED.			WIDOWED.			DIVORCED.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
The United States..	2,408,534	1,243,574	1,164,960	1,559,436	1,345,868	214,068	368,736	96,627	272,109	23,871	7,310	16,561
North Atlantic division..	860,852	413,294	447,558	543,538	496,233	47,305	114,535	35,806	78,729	4,588	1,388	3,200
Maine	21,156	11,222	9,934	15,997	14,461	1,536	3,480	1,073	2,407	458	152	306
New Hampshire	11,503	5,557	5,946	9,307	8,032	1,275	2,568	743	1,825	333	96	237
Vermont	11,964	4,516	7,448	7,872	6,686	1,186	1,948	536	1,412	275	67	208
Massachusetts	104,597	38,369	66,228	63,838	56,528	7,310	16,846	4,708	12,138	657	150	507
Rhode Island	15,179	6,928	8,251	11,093	9,984	1,109	2,437	780	1,657	197	55	142
Connecticut	34,117	15,222	18,895	20,521	18,432	2,089	5,096	1,424	3,672	330	83	251
New York	312,071	134,653	177,418	198,303	180,174	18,129	43,026	12,418	30,608	1,037	307	730
New Jersey	67,766	31,340	36,426	51,391	46,788	4,603	10,211	3,161	7,050	154	45	109
Pennsylvania	282,499	165,487	117,012	165,216	155,148	10,068	28,923	10,963	17,960	1,138	428	710
South Atlantic division..	303,929	126,549	177,380	212,528	144,566	67,962	73,029	10,580	62,439	2,326	468	1,858
Delaware	8,449	4,350	4,099	6,381	5,550	831	1,365	407	958	27	6	31
Maryland	51,448	21,961	29,487	40,308	30,397	9,911	10,320	2,040	8,280	225	57	168
District of Columbia..	18,324	7,798	10,526	15,952	10,542	5,410	5,308	763	4,545	139	40	99
Virginia	72,228	28,875	43,353	38,900	27,451	11,449	14,708	2,130	12,578	423	89	334
West Virginia	18,483	9,086	9,397	10,737	9,716	1,021	2,028	583	1,445	176	42	134
North Carolina	38,813	13,416	25,397	22,471	14,543	7,928	9,705	1,076	8,629	275	52	223
South Carolina	22,809	9,429	13,380	20,785	11,975	8,810	8,035	907	7,128	143	24	119
Georgia	59,336	22,759	36,577	43,321	24,630	18,691	17,590	1,918	15,672	605	88	517
Florida	14,039	8,875	5,164	13,673	9,762	3,911	3,970	766	3,204	313	70	243
North Central division..	774,588	393,697	380,891	511,320	477,413	33,907	83,574	30,700	52,874	9,669	3,428	6,241
Ohio	136,136	71,198	64,938	100,991	95,448	5,543	16,472	6,123	10,349	1,690	615	1,075
Indiana	66,331	35,863	30,468	50,096	48,110	2,586	8,652	3,539	5,113	1,439	564	875
Illinois	148,599	72,618	75,981	101,780	96,148	5,632	16,244	5,863	10,381	1,482	532	950
Michigan	80,940	44,515	36,425	62,224	58,501	3,633	7,932	3,403	4,529	1,114	406	708
Wisconsin	64,912	30,720	34,192	41,887	40,154	1,733	4,607	2,088	2,519	592	234	358
Minnesota	63,393	31,176	32,217	27,110	25,183	1,927	3,761	1,468	2,293	429	149	280
Iowa	50,340	22,336	28,004	30,248	28,454	1,794	4,581	1,839	2,742	763	287	476
Missouri	80,540	41,654	38,886	51,966	45,275	6,691	13,773	3,788	9,985	1,017	288	729
North Dakota	6,936	2,794	4,142	1,889	1,487	402	427	120	307	80	6	24
South Dakota	9,973	5,221	4,752	3,204	2,790	414	624	196	428	110	25	85
Nebraska	37,806	20,845	16,961	18,243	16,722	1,521	2,749	1,016	1,733	474	162	312
Kansas	28,682	14,757	13,925	21,082	19,051	2,031	3,752	1,257	2,495	529	160	369
South Central division..	253,520	135,500	118,020	196,183	139,458	56,725	80,931	12,620	68,311	5,075	997	4,078
Kentucky	50,340	23,764	26,576	34,467	25,785	8,682	12,522	2,227	10,295	940	188	752
Tennessee	41,446	19,994	21,452	29,642	21,402	8,240	13,202	1,906	11,296	1,049	178	871
Alabama	33,861	16,663	17,198	26,821	16,683	10,138	12,257	1,398	10,859	541	96	445
Mississippi	22,080	10,192	11,888	17,559	10,048	7,511	9,665	1,187	8,478	470	80	390
Louisiana	39,495	22,429	17,066	36,851	26,539	10,312	13,204	2,126	11,078	518	123	395
Texas	48,350	31,811	16,539	37,418	28,867	8,551	13,826	2,563	11,263	1,075	218	857
Oklahoma	1,030	781	249	565	505	60	107	49	58	16	9	7
Arkansas	16,918	9,866	7,052	12,860	9,629	3,231	6,148	1,164	4,984	466	105	361
Western division	215,645	174,534	41,111	95,867	87,698	8,169	16,667	6,911	9,756	2,213	1,029	1,184
Montana	15,295	13,423	1,872	4,359	3,924	435	576	261	315	106	45	61
Wyoming	6,225	5,336	889	1,774	1,640	134	286	163	123	44	30	19
Colorado	28,447	21,485	6,962	11,580	10,171	1,409	2,606	892	1,714	319	108	211
New Mexico	7,173	5,870	1,303	8,255	7,801	454	1,266	592	674	158	68	90
Arizona	5,507	5,086	421	2,286	2,087	199	491	177	314	38	21	17
Utah	9,368	6,688	2,680	5,361	5,053	308	695	249	446	111	47	64
Nevada	3,413	2,879	534	1,710	1,503	207	269	111	158	53	33	25
Idaho	4,577	3,968	609	1,823	1,657	166	268	141	127	50	22	28
Washington	30,121	26,163	3,958	10,442	9,596	846	1,506	831	675	222	102	120
Oregon	17,630	14,188	3,442	7,527	6,991	536	1,175	565	610	210	103	107
California	87,889	69,448	18,441	40,750	37,275	3,475	7,529	2,929	4,600	892	450	442

TABLE 9.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY SEX AND CONJUGAL CONDITION, BY STATES AND TERRITORIES: 1890—Cont'd.

TRADE AND TRANSPORTATION.

STATES AND TERRITORIES.	SINGLE AND UNKNOWN.			MARRIED.			WIDOWED.			DIVORCED.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
The United States..	1,514,908	1,327,079	187,829	1,697,469	1,680,594	16,875	105,903	83,684	22,219	7,842	6,344	1,498
North Atlantic division..	605,878	508,427	97,451	664,857	657,347	7,510	43,922	33,856	10,066	2,122	1,672	450
Maine	14,098	12,004	2,094	21,751	21,554	197	1,292	1,167	125	150	125	25
New Hampshire.....	7,920	6,733	1,187	11,114	10,950	164	620	555	65	117	101	16
Vermont.....	5,647	5,040	607	8,352	8,286	66	485	448	37	67	60	7
Massachusetts.....	92,496	73,032	19,464	97,246	95,777	1,469	6,393	5,137	1,256	378	293	85
Rhode Island.....	12,289	9,932	2,357	14,050	13,897	153	926	800	126	107	80	27
Connecticut.....	22,559	18,189	4,370	25,222	24,956	266	1,450	1,191	259	152	121	31
New York.....	253,461	214,646	38,815	256,173	253,339	2,834	17,390	13,369	4,021	540	436	104
New Jersey.....	50,620	43,679	6,941	65,107	64,422	685	4,241	3,209	1,032	104	75	29
Pennsylvania.....	146,788	125,172	21,616	165,842	164,166	1,676	11,125	7,980	3,145	507	381	126
South Atlantic division..	142,165	130,131	12,034	154,937	152,736	2,201	11,207	8,027	3,180	442	334	108
Delaware	3,902	3,327	575	4,841	4,779	62	292	220	72	10	5	5
Maryland.....	31,600	27,654	3,946	34,465	33,656	809	2,823	1,857	966	91	66	25
District of Columbia..	14,063	10,547	3,516	12,978	12,571	407	1,758	737	1,021	92	45	47
Virginia.....	28,716	27,456	1,260	27,916	27,655	261	1,839	1,493	346	55	45	10
West Virginia.....	10,656	10,069	587	11,661	11,603	58	623	538	85	33	29	4
North Carolina.....	12,664	12,245	419	15,322	15,210	112	788	603	95	25	23	2
South Carolina.....	9,680	9,292	388	11,259	11,129	130	783	593	190	13	10	3
Georgia.....	24,609	23,512	1,097	28,328	28,044	284	1,754	1,428	326	79	70	9
Florida.....	6,275	6,029	246	8,167	8,089	78	547	468	79	44	41	3
North Central division..	498,843	434,676	64,167	616,721	611,974	4,747	32,024	26,646	5,378	3,551	2,867	684
Ohio.....	82,174	69,637	12,537	107,186	106,400	786	5,644	4,495	1,149	574	446	128
Indiana.....	35,049	30,651	4,398	53,997	53,654	343	2,888	2,409	479	410	345	65
Illinois.....	114,121	97,148	16,973	125,301	124,193	1,108	6,682	5,430	1,252	600	475	125
Michigan.....	43,052	36,935	6,117	56,882	56,324	558	2,939	2,427	512	403	305	98
Wisconsin.....	30,156	25,994	4,162	36,523	36,238	285	1,737	1,429	308	204	169	35
Minnesota.....	35,208	31,484	3,724	35,362	35,088	274	1,708	1,468	240	178	145	33
Iowa.....	34,109	30,326	3,783	51,420	51,111	309	2,266	1,979	287	302	250	52
Missouri.....	64,452	57,841	6,611	70,773	70,251	522	4,443	3,685	758	378	306	72
North Dakota.....	3,124	2,978	146	3,383	3,363	20	159	151	8	13	13	.....
South Dakota.....	5,868	5,556	312	6,605	6,564	41	317	284	33	60	57	3
Nebraska.....	29,835	26,702	3,133	31,355	31,125	230	1,483	1,353	130	210	175	35
Kansas.....	21,695	19,424	2,271	37,934	37,663	271	1,758	1,536	222	219	181	38
South Central division...	143,031	135,989	7,042	159,548	158,191	1,357	12,027	9,570	2,457	712	610	102
Kentucky.....	27,953	25,537	2,416	30,812	30,531	281	2,228	1,753	475	152	119	33
Tennessee.....	24,336	23,061	1,275	27,536	27,341	195	1,908	1,618	290	126	106	20
Alabama.....	16,643	16,119	524	18,408	18,249	159	1,195	973	222	53	47	6
Mississippi.....	10,111	9,792	319	11,385	11,278	107	874	703	171	47	44	3
Louisiana.....	18,656	17,670	986	19,671	19,401	270	2,180	1,344	836	79	68	11
Texas.....	35,388	34,221	1,167	38,828	38,562	266	2,651	2,281	370	166	145	21
Oklahoma.....	916	882	34	1,072	1,064	8	75	68	7	12	11	1
Arkansas.....	9,028	8,707	321	11,836	11,765	71	916	830	86	77	70	7
Western division.....	124,901	117,856	7,135	101,406	100,346	1,060	6,723	5,585	1,138	1,015	861	154
Montana.....	7,126	6,973	153	4,051	4,012	39	230	206	24	36	28	8
Wyoming.....	3,102	3,046	56	1,989	1,977	12	145	130	15	22	19	3
Colorado.....	22,223	20,825	1,398	17,092	16,905	187	1,110	952	158	113	97	16
New Mexico.....	2,236	2,189	47	2,570	2,556	14	154	140	14	19	18	1
Arizona.....	2,118	2,106	12	1,506	1,496	10	99	89	10	15	14	1
Utah.....	5,298	4,919	379	5,471	5,397	74	208	198	70	51	34	17
Nevada.....	1,916	1,882	34	1,259	1,250	9	104	92	12	29	27	2
Idaho.....	2,520	2,468	52	1,707	1,689	18	112	97	15	19	19	.....
Washington.....	17,284	16,627	657	11,176	11,070	106	098	630	68	108	94	14
Oregon.....	10,232	9,599	633	8,521	8,407	114	517	439	78	103	89	14
California.....	50,936	47,222	3,714	46,064	45,587	477	3,286	2,612	674	500	422	78

TABLE 9.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY SEX AND CONJUGAL CONDITION, BY STATES AND TERRITORIES: 1890—Cont'd.

MANUFACTURING AND MECHANICAL INDUSTRIES.

STATES AND TERRITORIES.	SINGLE AND UNKNOWN.			MARRIED.			WIDOWED.			DIVORCED.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
The United States.	2,368,203	1,556,213	811,990	2,463,110	2,353,398	109,712	240,436	144,381	96,055	19,544	10,059	9,485
North Atlantic division.	1,254,239	754,230	500,009	1,195,073	1,133,128	61,950	109,949	66,628	43,321	6,484	3,133	3,351
Maine	35,799	20,498	15,301	39,919	36,426	3,493	3,727	2,234	1,493	809	279	330
New Hampshire	35,546	19,145	16,401	32,134	27,940	4,194	3,193	1,856	1,337	535	248	287
Vermont	11,633	7,948	3,685	16,270	15,505	765	1,585	1,039	546	214	110	104
Massachusetts	248,179	137,715	110,464	205,912	188,791	17,121	20,228	11,700	8,528	1,327	555	772
Rhode Island	46,492	24,000	22,492	31,702	28,892	2,810	3,011	1,811	1,200	343	136	207
Connecticut	74,553	44,052	30,501	65,875	62,854	3,021	5,401	3,393	2,008	568	294	274
New York	397,482	238,712	158,770	391,100	372,995	18,105	38,241	22,006	16,235	1,393	717	676
New Jersey	107,024	67,601	39,423	107,783	104,319	3,464	8,848	5,624	3,224	237	127	110
Pennsylvania	297,531	194,559	102,972	304,383	295,406	8,977	25,715	16,965	8,750	1,258	667	591
South Atlantic division.	180,237	119,550	60,687	204,380	192,144	12,236	25,295	12,645	12,650	902	424	478
Delaware	8,306	6,037	2,269	9,073	8,823	250	706	522	184	19	12	7
Maryland	47,838	29,215	18,623	48,142	45,618	2,524	5,859	3,101	2,758	176	80	96
District of Columbia.	10,361	7,221	3,140	11,290	10,392	898	1,584	779	805	76	39	37
Virginia	32,574	23,190	9,384	39,643	37,301	2,342	5,252	2,733	2,519	145	81	64
West Virginia	12,452	9,803	2,649	17,002	16,600	402	1,292	933	359	06	51	45
North Carolina	23,459	13,706	9,753	24,021	22,207	1,814	3,070	1,287	1,783	95	31	64
South Carolina	14,017	8,092	5,925	15,019	13,579	1,440	2,073	844	1,229	28	12	16
Georgia	24,203	16,474	7,729	30,475	28,566	1,909	4,140	1,722	2,418	176	71	105
Florida	7,027	5,812	1,215	9,715	9,058	657	1,319	724	595	91	47	44
North Central division.	670,812	474,971	195,841	785,169	761,331	23,838	68,412	43,434	24,978	8,705	4,449	4,256
Ohio	154,652	107,922	46,730	160,529	156,127	4,402	14,251	8,819	5,432	1,555	790	765
Indiana	54,482	38,788	15,694	76,142	73,609	2,533	7,714	4,712	3,002	1,170	587	583
Illinois	144,533	101,126	43,407	160,701	156,495	4,206	12,619	7,823	4,796	1,287	663	624
Michigan	64,789	46,461	18,328	89,338	86,382	2,956	6,901	4,494	2,407	1,070	541	529
Wisconsin	59,318	41,605	17,713	64,906	63,465	1,441	4,418	3,084	1,334	653	336	317
Minnesota	39,114	29,273	9,841	40,958	39,781	1,177	3,280	2,358	927	396	237	159
Iowa	36,400	24,118	12,282	47,998	46,206	1,792	4,527	2,935	1,592	729	319	410
Missouri	68,084	49,331	18,753	75,945	73,594	2,351	8,070	4,896	3,174	808	437	371
North Dakota	2,261	1,634	627	2,255	2,149	106	253	171	82	28	14	14
South Dakota	4,371	3,266	1,105	5,442	5,171	271	576	402	174	109	61	48
Nebraska	24,549	18,807	5,742	28,289	27,177	1,112	2,538	1,689	849	416	232	184
Kansas	18,259	12,640	5,619	32,666	31,175	1,491	3,265	2,056	1,209	484	232	252
South Central division.	130,869	95,977	34,892	166,711	159,937	6,774	24,264	13,221	11,043	1,476	779	607
Kentucky	36,689	24,701	11,988	40,208	38,730	1,478	5,398	3,085	2,313	380	179	201
Tennessee	21,824	16,425	5,399	31,076	30,521	1,155	4,303	2,368	1,935	369	198	171
Alabama	15,790	11,357	4,433	20,444	19,584	860	2,675	1,355	1,320	110	62	48
Mississippi	7,623	5,565	2,058	10,196	9,747	449	1,748	983	765	70	41	29
Louisiana	18,440	12,282	6,158	19,459	18,199	1,260	3,627	1,583	2,044	138	67	71
Texas	22,296	18,613	3,683	31,019	29,876	1,143	4,486	2,535	1,951	264	135	129
Oklahoma	810	723	87	1,195	1,163	32	144	120	24	19	14	5
Arkansas	7,397	6,311	1,086	12,514	12,117	397	1,883	1,192	691	126	83	43
Western division.	132,046	111,485	20,561	111,772	106,858	4,914	12,516	8,453	4,063	1,977	1,274	703
Montana	6,750	6,169	581	4,501	4,306	195	428	305	123	85	57	28
Wyoming	2,394	2,201	193	1,969	1,900	69	227	186	41	44	27	17
Colorado	20,172	17,595	2,577	17,045	16,352	693	1,906	1,247	659	257	161	96
New Mexico	1,516	1,200	316	2,110	1,978	132	227	202	125	44	27	17
Arizona	1,373	1,201	172	1,112	1,065	47	230	140	90	18	10	8
Utah	5,445	4,309	1,136	7,170	6,862	308	652	377	275	85	47	38
Nevada	1,585	1,376	209	1,221	1,142	79	205	139	66	50	23	27
Idaho	1,806	1,624	182	1,943	1,806	137	193	137	56	45	34	11
Washington	19,890	18,374	1,516	15,440	14,880	560	1,411	1,129	282	241	190	45
Oregon	11,012	9,392	1,620	10,586	10,104	482	1,140	808	272	222	156	66
California	60,103	48,044	12,059	48,675	46,463	2,212	5,797	3,723	2,074	880	536	350

TABLE 10.—TOTAL PERSONS 10 YEARS OF AGE AND OVER IN THE UNITED STATES ENGAGED IN EACH SPECIFIED OCCUPATION, CLASSIFIED BY SEX AND CONJUGAL CONDITION: 1890.

OCCUPATIONS.	SINGLE AND UNKNOWN.			MARRIED.			WIDOWED.			DIVORCED.		
	Total.	Males.	Fe- males.	Total.	Males.	Fe- males.	Total.	Males.	Fe- males.	Total.	Males.	Fe- males.
All occupations	10,112,796	7,378,971	2,733,825	11,264,340	10,749,080	515,260	1,278,725	648,457	630,268	79,800	44,582	35,218
Agriculture, fisheries, and mining.	3,342,058	3,046,910	295,148	5,122,433	4,969,477	152,956	524,121	298,573	225,548	24,724	18,853	5,871
Agricultural laborers (a)	2,158,011	1,885,857	272,154	720,417	598,256	122,161	116,693	66,164	50,529	8,940	6,680	2,260
Apiarists	578	556	22	1,031	1,022	9	139	128	11	25	22	3
Dairymen and dairy women	7,933	7,099	834	9,034	8,627	407	872	397	475	56	38	18
Farmers, planters, and overseers (a)	847,602	827,117	20,485	4,039,149	4,009,668	29,481	381,099	208,159	172,940	13,707	10,186	3,521
Fishermen and oystermen (a)	24,890	24,788	102	32,839	32,735	104	2,297	2,240	57	136	136	.....
Gardeners, florists, nurserymen, and vine growers	20,077	19,226	851	46,562	46,080	482	5,691	4,654	1,037	271	226	45
Lumbermen and raftsmen	35,176	35,159	17	28,595	28,589	6	1,899	1,894	5	196	196	.....
Miners (coal)	89,946	89,797	149	113,126	113,064	62	5,174	5,170	4	299	299	.....
Miners (not otherwise specified)	77,711	77,617	94	58,416	58,389	27	4,361	4,349	12	559	559	.....
Quarrymen	16,513	16,499	14	19,922	19,911	11	1,149	1,146	3	72	72	.....
Stock raisers, herders, and drovers	37,158	36,983	175	80,446	80,365	81	2,821	2,416	405	304	283	21
Wood choppers	17,338	17,316	22	14,759	14,752	7	1,402	1,459	3	138	138	.....
Other agricultural pursuits (a)	9,125	8,896	229	8,137	8,019	118	464	397	67	21	18	3
Professional service.	479,093	205,195	273,898	421,892	400,243	21,649	39,529	25,192	14,337	3,819	2,016	1,803
Actors	5,023	3,014	2,009	4,234	2,625	1,609	884	114	270	87	26	61
Architects	3,352	3,363	19	4,417	4,414	3	259	259	.....	12	12	.....
Artists and teachers of art	13,788	5,433	8,355	7,235	5,792	1,443	1,307	417	890	166	39	127
Authors and literary and scientific persons	3,308	1,393	1,915	2,755	2,354	401	605	222	383	46	20	26
Chemists, assayers, and metallurgists	2,051	2,016	35	2,285	2,283	2	160	158	2	7	7	.....
Clergymen	16,534	15,864	670	67,653	67,291	262	3,980	3,779	201	136	128	10
Dentists	5,890	5,644	246	10,884	10,831	53	631	601	30	93	85	8
Designers, draftsmen, and inventors	4,581	4,333	248	4,481	4,452	29	303	276	27	26	25	1
Engineers (civil, mechanical, electrical, and min- ing) and surveyors	18,555	18,477	78	23,276	23,249	27	1,302	1,283	19	106	106	.....
Journalists	7,417	6,928	489	13,513	13,276	237	822	677	145	97	80	17
Lawyers	23,215	23,080	135	61,871	61,827	44	4,206	4,178	28	338	337	1
Musicians and teachers of music	39,773	12,178	27,595	18,428	14,316	4,112	3,410	1,024	2,386	544	118	426
Officers of United States army and navy	955	955	.....	1,871	1,871	.....	91	91	.....	9	9	.....
Officials (government) (a)	18,504	15,588	2,916	56,451	55,613	838	4,474	3,425	1,049	235	163	72
Physicians and surgeons	22,395	20,164	2,231	75,465	74,234	1,231	6,839	5,342	997	606	508	98
Professors in colleges and universities	2,210	1,637	573	2,957	2,881	76	206	163	43	19	16	3
Teachers	279,811	53,987	225,824	51,125	40,170	10,955	9,869	2,206	7,663	1,147	218	929
Theatrical managers, showmen, etc	9,468	9,083	385	7,935	7,753	182	568	508	60	84	77	7
Veterinary surgeons	1,582	1,581	1	4,442	4,441	1	432	432	.....	88	88	.....
Other professional service	651	477	174	714	570	144	181	37	144	23	6	17
Domestic and personal service.	2,408,534	1,243,574	1,164,960	1,559,436	1,345,368	214,068	368,736	96,627	272,109	23,871	7,310	16,561
Barbers and hairdressers	36,186	34,436	1,750	46,083	45,479	604	2,361	1,942	419	352	300	52
Bartenders	35,023	34,950	73	19,247	19,201	46	1,315	1,291	24	221	218	3
Boarding and lodging house keepers	5,743	1,425	4,318	17,211	9,661	7,550	20,228	635	19,593	1,167	35	1,132
Engineers and firemen (not locomotive)	40,128	40,102	26	94,708	94,690	18	4,557	4,554	3	372	372	.....
Hotel keepers	4,319	3,829	490	34,848	33,520	1,328	4,589	1,345	3,244	320	106	214
Housekeepers and stewards (a)	44,684	2,279	42,305	16,393	3,295	13,098	29,093	351	28,742	1,966	22	1,944
Hunters, trappers, guides, and scouts	1,083	1,077	6	1,260	1,247	13	173	173	.....	18	18	.....
Janitors	4,307	3,867	440	14,738	13,797	941	2,418	1,057	1,361	93	55	38
Laborers (not specified) (a)	898,327	870,466	27,861	928,790	914,109	14,681	80,892	69,141	11,751	5,364	4,842	522
Launderers and laundresses	93,736	20,966	72,770	78,404	9,958	68,446	72,751	848	71,903	3,571	59	3,512
Nurses and midwives	24,665	3,954	20,711	7,212	1,806	5,406	14,934	402	14,532	775	28	747
Restaurant keepers	3,998	3,660	438	13,490	12,647	843	1,666	608	1,058	129	52	77
Saloon keepers	14,630	14,432	198	52,578	52,101	477	3,917	2,360	1,557	260	217	43
Servants	1,155,705	164,280	991,425	166,273	66,203	100,070	123,888	6,972	116,916	8,925	697	8,228
Sextons	1,067	1,062	5	3,559	3,555	4	341	323	18	15	14	1
Soldiers, sailors, and marines (United States) (a)	23,889	23,889	.....	3,700	3,700	.....	281	281	.....	49	49	.....
Watchmen, policemen, and detectives	14,207	14,138	69	56,023	55,957	66	4,197	4,058	139	202	197	5
Other domestic and personal service	6,937	4,862	2,075	4,919	4,442	477	1,135	286	849	72	29	43
Trade and transportation.	1,514,908	1,327,079	187,829	1,697,469	1,680,594	16,875	105,903	83,684	22,219	7,842	6,344	1,498
Agents (claim, commission, real estate, insurance, etc.) and collectors	49,809	47,385	2,424	116,000	115,032	968	8,075	6,751	1,324	698	539	159
Auctioneers	532	531	1	2,457	2,457	.....	199	198	1	17	17	.....
Bankers and brokers (money and stocks)	6,652	6,527	125	21,293	21,238	55	1,951	1,642	309	112	101	11
Boatmen and canalmen	6,809	6,795	14	9,247	9,239	8	632	621	11	28	28	.....
Bookkeepers and accountants (a)	93,456	67,752	25,704	61,906	60,707	1,199	3,625	2,900	725	387	243	144
Brokers (commercial)	1,666	1,663	3	3,976	3,974	2	296	292	4	22	21	1
Clerks and copyists (a)	393,000	334,905	58,185	152,880	149,921	2,909	10,452	7,657	2,795	986	656	330
Commercial travelers	18,445	18,060	385	38,507	38,353	154	1,556	1,406	60	183	171	12
Draymen, hackmen, teamsters, etc.	149,496	149,332	164	207,518	207,483	35	10,552	10,517	35	933	933	.....
Foremen and overseers	7,966	7,190	776	26,813	26,718	95	1,251	1,152	99	54	49	5
Hostlers	31,525	31,510	15	20,388	20,383	5	1,888	1,887	1	235	234	1
Hucksters and peddlers	20,136	19,497	639	35,499	34,876	623	3,240	2,276	964	208	175	33
Livery stable keepers	6,098	6,092	6	19,518	19,506	12	1,028	999	29	113	113	.....
Locomotive engineers and firemen (a)	28,820	28,818	2	48,971	48,969	2	1,524	1,524	.....	148	148	.....
Merchants and dealers in drugs and chemicals (re- tail)	17,152	16,755	397	27,690	27,546	144	1,402	1,217	185	131	123	8
Merchants and dealers in dry goods (retail)	7,839	7,131	708	32,303	31,785	518	2,301	1,370	931	84	63	21
Merchants and dealers in groceries (retail)	22,393	21,607	786	84,721	83,035	1,686	7,623	3,793	3,830	260	203	57
Merchants and dealers in wines and liquors (retail)	2,109	2,097	12	7,469	7,439	30	484	390	94	16	16	.....
Merchants and dealers in wines and liquors (whole- sale)	723	713	10	2,738	2,730	8	178	158	20	4	4	.....

a See explanatory notes in Table 2.

TABLE 10.—TOTAL PERSONS 10 YEARS OF AGE AND OVER IN THE UNITED STATES ENGAGED IN EACH SPECIFIED OCCUPATION, CLASSIFIED BY SEX AND CONJUGAL CONDITION: 1890—Continued.

OCCUPATIONS.	SINGLE AND UNKNOWN.			MARRIED.			WIDOWED.			DIVORCED.		
	Total.	Males.	Fe-males.	Total.	Males.	Fe-males.	Total.	Males.	Fe-males.	Total.	Males.	Fe-males.
Trade and transportation—Continued.												
Merchants and dealers, not specified (retail)	96,905	92,250	4,655	325,034	321,144	3,890	23,130	15,955	7,175	1,193	965	228
Merchants and dealers (wholesale), importers, and shipping merchants	5,357	5,298	59	20,935	20,882	53	1,102	1,056	46	49	49	.....
Messengers and errand and office boys	48,820	45,948	2,872	2,350	2,331	19	178	161	17	7	6	1
Newspaper carriers and newsboys	4,187	4,131	56	1,019	1,016	3	77	64	13	5	5	.....
Official of banks and of insurance, trade, transportation, trust, and other companies. (a)	9,316	9,168	148	29,033	29,002	31	1,481	1,446	35	70	67	3
Packers and shippers	14,288	8,291	5,997	10,010	9,717	293	598	390	208	50	28	22
Pilots	817	817	.....	3,229	3,228	1	202	202	.....	11	11	.....
Porters and helpers (in stores and warehouses)	11,157	10,874	283	12,356	12,314	42	786	758	28	57	56	1
Sailors (a)	24,356	24,344	12	29,308	29,304	4	2,114	2,113	1	121	121	.....
Salesmen and saleswomen	172,401	118,643	53,758	85,643	83,123	2,520	5,748	3,818	1,930	602	359	243
Steam railroad employes (not otherwise specified). (a)	170,662	169,872	790	202,515	202,164	351	8,015	8,629	286	658	647	11
Stenographers and typewriters	29,014	8,915	20,099	3,620	3,112	508	623	103	520	161	18	143
Street railway employes	15,753	15,745	8	20,760	20,758	2	852	851	1	69	69	.....
Telegraph and telephone operators	36,121	28,456	7,665	15,297	14,814	483	684	409	275	112	61	51
Telegraph and telephone linemen and electric light and power company employes	6,319	5,677	642	4,625	4,610	15	178	168	10	12	10	2
Undertakers	2,119	2,103	16	7,254	7,244	10	500	444	56	18	17	1
Weighers, gaugers, and measurers	1,132	1,121	11	2,561	2,558	3	155	151	4	12	12	.....
Other persons in trade and transportation	1,468	1,066	402	2,076	1,882	194	323	126	197	16	6	10
Manufacturing and mechanical industries	2,368,203	1,556,213	811,990	2,463,110	2,353,398	109,712	240,436	144,381	96,055	19,544	10,059	9,485
Agricultural implement makers (not otherwise classified). (a)	1,384	1,361	23	2,249	2,248	1	118	118	.....	4	4	.....
Apprentices (blacksmiths)	4,023	4,021	2	207	207	.....	12	12	.....	2	2	.....
Apprentices (boot and shoe makers)	979	952	27	49	49	.....	2	2	.....	1	1	.....
Apprentices (carpenters and joiners)	6,516	6,507	9	232	232	.....	9	9	.....	3	3	.....
Apprentices (carriage and wagon makers)	826	825	1	25	25	.....	1	1	.....	.....	.....	.....
Apprentices (dressmakers)	4,270	.....	4,270	33	.....	33	33	.....	33	4	.....	4
Apprentices (leather curriers, etc.)	406	406	.....	15	15	.....	.....	.....	.....	.....	.....	.....
Apprentices (machinists)	9,552	9,540	12	182	182	.....	4	4	.....	6	.....	.....
Apprentices (masons)	1,852	1,851	1	69	69	.....	.....	.....	.....	6	6	.....
Apprentices (milliners)	1,190	.....	1,190	9	.....	9	3	.....	3	2	.....	2
Apprentices (painters)	2,292	2,286	6	27	26	1	2	2	.....	.....	.....	.....
Apprentices (plumbers)	4,586	4,584	2	35	35	.....	3	3	.....	.....	.....	.....
Apprentices (printers)	4,586	4,441	145	45	40	5	4	2	.....	.....	.....	.....
Apprentices (tailors)	2,590	1,895	695	33	30	3	1	1	.....	1	.....	1
Apprentices (tinsmiths)	1,972	1,969	3	63	63	.....	2	2	.....	.....	.....	.....
Apprentices (not otherwise specified)	35,255	33,738	1,517	419	405	14	18	11	7	6	2	4
Artificial flower makers	2,530	265	2,265	361	220	141	151	18	133	4	.....	.....
Bakers	26,208	25,000	1,208	31,712	31,332	380	2,152	1,482	670	125	90	29
Basket makers	2,136	1,707	429	2,588	2,456	132	479	336	143	22	15	7
Blacksmiths	52,936	52,907	29	142,837	142,820	17	8,944	8,932	12	620	620	.....
Bleachers, dyers, and scourers	6,236	4,883	1,353	7,344	7,177	167	612	431	181	18	12	6
Bone and ivory workers	844	649	195	790	778	12	54	41	13	3	1	2
Bookbinders	17,445	6,510	10,935	5,662	5,394	268	710	377	333	41	17	24
Boot and shoe makers and repairers	85,848	57,961	27,887	115,103	111,276	3,827	11,620	9,988	1,632	973	642	331
Bottlers and mineral and soda water makers	3,697	3,204	493	3,357	3,340	17	162	128	34	14	9	5
Box makers (paper)	15,148	2,811	12,337	2,207	1,814	393	354	80	274	48	9	39
Box makers (wood)	6,600	5,369	1,231	4,044	3,995	49	219	191	28	20	17	3
Brass workers (not otherwise specified) (a)	9,081	8,250	831	7,765	7,726	39	395	357	38	24	19	5
Brewers and maltsters (a)	5,871	5,825	46	13,921	13,914	7	543	528	15	27	27	.....
Brick and tile makers and terra cotta workers (a)	32,326	32,217	109	26,405	26,378	27	1,384	1,377	7	99	98	1
Britannia workers	401	295	106	478	472	6	23	19	4	2	1	1
Broom and brush makers	5,505	4,452	1,053	4,212	4,151	61	367	319	48	31	27	4
Builders and contractors	9,221	9,220	1	34,703	34,699	4	1,953	1,948	5	111	111	.....
Butchers	38,909	38,881	28	63,075	63,050	25	3,086	3,023	63	386	385	1
Butter and cheese makers	4,776	4,510	266	6,164	6,075	89	244	199	45	27	24	3
Button makers	2,027	534	1,493	501	456	45	68	20	48	5	1	4
Cabinet makers	9,004	8,990	14	25,056	25,049	7	1,771	1,768	3	84	84	.....
Candle, soap, and tallow makers	1,731	1,853	378	1,577	1,566	11	134	125	9	8	7	1
Carpenters and joiners	166,392	166,271	121	412,759	412,710	49	30,259	30,240	19	2,072	2,072	.....
Carpet makers (a)	12,914	5,145	7,769	7,044	5,888	1,156	2,210	491	1,719	134	22	112
Carriage and wagon makers (not otherwise classified). (a)	7,563	7,407	156	24,953	24,910	43	1,902	1,872	30	120	119	1
Charcoal, coke, and lime burners	3,246	3,236	10	5,175	5,172	3	264	262	2	19	19	.....
Chemical works employes (a)	1,867	927	940	1,624	1,597	27	130	87	43	7	2	5
Clock and watch makers and repairers	12,948	8,757	4,191	11,355	11,028	327	859	711	148	90	60	30
Compositors (a)	20,000	14,248	5,752	9,321	8,984	337	638	462	176	101	51	50
Confectioners	10,688	7,011	3,677	10,710	9,975	735	1,755	537	1,218	98	54	44
Coopers	14,728	14,694	34	29,841	29,831	10	2,737	2,733	4	180	180	.....
Copper workers	1,271	1,265	6	1,983	1,983	1	124	124	.....	5	5	.....
Corset makers	5,727	401	5,326	553	313	240	216	17	199	37	2	35
Cotton mill operatives (a)	123,289	46,442	76,847	43,781	32,072	11,709	5,719	1,586	4,133	353	77	276
Distillers and rectifiers (a)	980	976	4	2,187	2,182	5	142	142	.....	5	5	.....
Door, sash, and blind makers (a)	2,191	2,183	8	2,739	2,738	1	103	102	1	8	8	.....
Dressmakers	215,368	422	214,946	35,646	375	35,271	34,029	33,993	4,121	3	4,118	.....
Electroplaters	1,415	1,310	105	1,270	1,265	5	66	64	2	5	5	.....
Electrotypers and stereotypers (a)	668	664	4	780	780	.....	22	21	1	1	1	.....
Engravers	4,330	4,046	284	3,773	3,762	11	203	195	8	14	14	.....
Fertilizer makers (a)	274	270	4	430	430	.....	28	26	2	.....	.....	.....
Fish curers and packers (a)	779	618	161	462	434	28	36	30	6	2	2	.....
Gas works employes (a)	1,485	1,480	5	3,493	3,493	.....	239	239	.....	7	7	.....
Glass workers	19,417	17,797	1,620	14,305	14,255	50	519	484	35	41	36	5

a See explanatory notes in Table 2.

TABLE 10.—TOTAL PERSONS 10 YEARS OF AGE AND OVER IN THE UNITED STATES ENGAGED IN EACH SPECIFIED OCCUPATION, CLASSIFIED BY SEX AND CONJUGAL CONDITION: 1890—Continued.

OCCUPATIONS.	SINGLE AND UNKNOWN.			MARRIED.			WIDOWED.			DIVORCED.		
	Total.	Males.	Fe- males.	Total.	Males.	Fe- males.	Total.	Males.	Fe- males.	Total.	Males.	Fe- males.
Manufacturing and mechanical industries—Cont'd.												
Glove makers	3,642	1,037	2,605	2,395	1,614	781	349	84	265	30	6	24
Gold and silver workers	10,626	7,559	3,067	9,021	8,861	160	554	450	104	62	44	18
Gunsmiths, locksmiths, and bell hangers	3,297	3,215	82	5,370	5,366	4	453	450	3	38	38	.....
Hair workers	733	331	402	409	331	78	104	20	84	8	2	6
Harness and saddle makers and repairers	15,318	14,610	708	26,043	25,972	71	1,930	1,879	51	189	186	3
Hat and cap makers	12,915	7,099	5,816	10,126	9,675	451	908	508	400	64	37	27
Hosiery and knitting mill operatives (a)	23,985	5,496	18,489	4,489	3,106	1,383	972	132	840	109	11	98
Iron and steel workers (a)	62,343	60,248	2,095	78,853	78,099	154	3,534	3,458	76	191	180	11
Lace and embroidery makers	4,209	369	3,840	670	438	232	351	13	338	26	1	25
Lead and zinc workers	2,044	1,849	195	2,456	2,455	1	109	103	6	7	6	1
Leather curriers, dressers, finishers, and tanners	14,948	14,692	256	22,974	22,953	21	1,845	1,330	15	65	65	.....
Machinists	69,374	69,259	115	102,318	102,299	19	5,084	5,080	4	314	313	1
Manufacturers and officials of manufacturing companies	16,863	16,753	110	80,469	80,387	82	4,071	3,936	135	207	204	3
Marble and stone cutters	22,952	22,902	50	35,879	35,873	6	2,125	2,123	2	114	114	.....
Masons (brick and stone)	44,044	44,017	27	106,637	106,620	8	7,765	7,760	5	472	472	.....
Meat and fruit packers, canners, and preservers (a)	3,131	2,063	1,068	2,454	2,239	215	236	113	123	9	4	5
Mechanics (not otherwise specified)	4,493	4,485	8	10,160	10,157	3	782	780	2	50	50	.....
Metal workers (not otherwise specified)	8,135	7,373	762	8,159	8,103	56	368	337	31	32	24	8
Mill and factory operatives (not specified) (a)	61,976	27,777	34,199	26,990	22,524	4,466	4,319	1,234	3,085	311	68	243
Millers (flour and grist)	12,219	12,174	45	38,209	38,188	21	2,293	2,265	28	120	120	.....
Milliners	43,001	202	42,799	10,790	179	10,611	5,894	11	5,883	797	3	794
Model and pattern makers	3,223	3,105	118	6,605	6,593	12	448	437	11	24	24	.....
Molders	27,586	27,548	38	36,745	36,740	5	1,842	1,839	3	116	116	.....
Musical instrument makers (not otherwise specified) (a)	273	254	19	353	351	2	25	23	2	1	1	.....
Nail and tack makers (a)	2,682	2,247	435	1,803	1,772	31	90	80	10	8	7	1
Oil well employes	3,266	3,260	6	5,691	5,689	2	179	177	2	11	11	.....
Oil works employes	2,097	2,064	33	3,372	3,371	1	143	140	3	12	12	.....
Painters, glaziers, and varnishers	87,544	86,430	1,114	124,517	124,425	92	7,009	6,954	55	842	837	5
Paper hangers	5,454	5,433	21	6,478	6,469	9	382	359	23	55	54	1
Paper mill operatives	15,714	8,262	7,452	10,900	10,104	796	1,139	467	672	64	23	41
Photographers	9,381	7,631	1,750	9,936	9,653	283	598	470	128	125	85	40
Piano and organ makers and tuners (a)	5,977	5,706	271	8,210	8,179	31	465	451	14	31	31	.....
Plasterers	11,761	11,750	11	25,370	25,367	3	1,723	1,728	1	142	142	.....
Plumbers and gas and steam fitters	32,377	32,342	35	23,049	23,046	3	1,093	1,093	6	82	82	.....
Potters	7,428	5,663	1,765	7,124	6,984	140	355	275	80	21	17	4
Powder and cartridge makers	811	419	392	539	522	17	32	21	11	3	1	2
Printers, lithographers, and pressmen (a)	53,090	47,990	5,100	31,772	31,413	359	1,841	1,593	248	190	158	32
Print works operatives (a)	4,069	2,694	1,405	2,412	2,344	68	186	121	65	4	3	1
Publishers of books, maps, and newspapers	1,393	1,348	45	4,656	4,644	12	219	204	15	10	14	2
Roofers and slaters	2,738	2,737	1	4,015	4,015	.....	272	270	2	18	18	.....
Rope and cordage makers	5,646	2,800	2,846	2,085	1,948	137	262	144	118	8	4	4
Rubber factory operatives	10,782	4,874	5,908	4,935	4,606	329	415	213	202	30	13	17
Sail, awning, and tent makers	1,191	993	198	1,833	1,811	22	217	187	30	16	15	1
Salt works employes	675	583	92	1,040	1,035	5	43	39	4	7	5	2
Saw and planing mill employes (a)	61,005	60,759	246	68,963	68,936	27	3,371	3,362	9	298	298	.....
Seamstresses (a)	107,243	1,918	105,325	16,526	1,936	14,590	24,297	111	24,186	1,978	6	1,972
Sewing machine makers (not otherwise classified) (a)	384	356	28	467	466	1	27	26	1	2	2	.....
Sewing machine operators (a)	6,052	651	5,398	729	438	291	315	10	305	30	2	28
Ship and boat builders	5,537	5,536	1	15,763	15,761	2	1,591	1,591	.....	60	60	.....
Shirt, collar, and cuff makers (a)	16,709	2,757	13,952	3,254	2,277	977	1,067	91	976	77	7	70
Silk mill operatives (a)	26,626	7,650	19,176	7,199	6,253	946	793	283	510	37	6	31
Starch makers	425	272	153	302	285	17	19	9	10	.....	.....	.....
Steam boiler makers	8,838	8,832	6	11,844	11,844	.....	618	618	.....	39	39	.....
Stove, furnace, and grate makers (a)	3,565	3,547	18	5,040	5,038	2	260	260	.....	67	67	.....
Straw workers	2,537	490	2,047	658	713	243	152	36	116	21	4	17
Sugar makers and refiners	826	825	1	1,710	1,708	2	80	79	1	.....	.....	.....
Tailors and tailoresses (a)	91,505	40,736	50,769	81,727	75,595	6,132	11,535	5,074	6,461	633	186	447
Tinners and tinware makers	24,354	23,534	820	29,397	29,346	51	1,601	1,577	24	136	132	4
Tobacco and cigar factory operatives	63,377	41,917	21,460	44,422	39,795	4,627	3,609	1,792	1,817	217	130	87
Tool and cutlery makers (not otherwise classified) (a)	7,205	6,728	477	10,162	10,129	33	577	556	21	41	36	5
Trunk, valise, leather-case, and pocket-book makers	3,630	2,878	752	2,448	2,410	38	193	164	29	8	6	2
Umbrella and parasol makers	2,487	745	1,742	753	676	77	158	42	116	5	2	3
Upholsterers	12,304	10,929	1,375	12,402	12,230	172	896	704	192	64	55	9
Well borers	1,796	1,796	.....	2,894	2,893	1	135	135	.....	29	29	.....
Wheelwrights	2,832	2,831	1	9,169	9,169	.....	808	808	.....	47	47	.....
Whitewashers	827	824	3	2,774	2,772	2	379	375	4	16	16	.....
Wire workers	6,609	5,595	1,014	5,457	5,417	40	238	215	23	15	11	4
Wood workers (not otherwise specified)	30,970	27,676	3,294	34,826	34,079	247	1,916	1,713	203	148	132	16
Woolen mill operatives (a)	56,140	24,679	31,461	25,095	21,737	3,358	2,658	1,164	1,494	216	58	158
Other persons in manufacturing and mechanical industries	40,485	26,367	14,118	33,281	32,395	886	2,770	1,921	849	178	123	55

a See explanatory notes in Table 2.

TABLE 11.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY SEX AND MONTHS UNEMPLOYED, BY STATES AND TERRITORIES: 1890.**ALL OCCUPATIONS.**

STATES AND TERRITORIES.	PERSONS UNEMPLOYED DURING PORTION OF CENSUS YEAR. (a)											
	Aggregate.			1 to 3 months.			4 to 6 months.			7 to 12 months.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
The United States.	3,523,730	3,013,117	510,613	1,818,865	1,553,750	265,106	1,368,418	1,179,426	188,992	336,447	279,932	56,515
North Atlantic division.	1,144,193	956,923	187,270	586,894	482,208	104,686	433,583	373,984	59,599	123,716	100,731	22,985
Maine	47,360	39,359	8,001	23,053	19,291	3,762	19,732	16,519	3,213	4,575	3,549	1,026
New Hampshire.....	21,084	15,967	5,117	12,008	9,064	2,944	6,764	5,298	1,466	2,312	1,605	707
Vermont.....	17,431	14,354	3,077	8,816	7,374	1,442	6,595	5,403	1,192	2,020	1,577	443
Massachusetts.....	179,462	136,374	43,088	103,675	77,814	25,861	56,928	44,789	12,139	18,859	13,771	5,088
Rhode Island.....	23,715	17,611	6,104	12,942	9,458	3,484	7,437	5,800	1,637	3,336	2,353	983
Connecticut.....	39,536	30,249	9,287	22,989	17,153	5,836	12,319	9,879	2,440	4,228	3,217	1,011
New York.....	348,847	288,126	60,721	167,658	134,737	32,921	143,663	123,421	20,242	37,526	29,908	7,558
New Jersey.....	89,778	75,196	14,582	52,917	43,746	9,171	28,336	24,433	3,903	8,525	7,017	1,508
Pennsylvania.....	376,980	339,687	37,293	182,836	163,571	19,265	151,809	138,442	13,367	42,335	37,674	4,661
South Atlantic division.	423,456	327,729	95,727	240,913	192,900	48,013	150,977	111,248	39,729	31,566	23,581	7,985
Delaware.....	9,884	8,744	1,140	6,061	5,419	642	3,099	2,733	366	724	592	132
Maryland.....	67,868	56,974	10,894	33,340	27,922	5,418	27,078	23,072	4,006	7,450	5,980	1,470
District of Columbia.	12,155	8,781	3,374	6,244	4,466	1,778	4,342	3,267	1,075	1,569	1,048	521
Virginia.....	71,214	57,343	13,871	37,047	30,700	6,347	27,852	21,909	5,943	6,315	4,734	1,581
West Virginia.....	50,511	47,971	2,540	30,607	29,555	1,052	16,181	15,068	1,113	3,723	3,348	375
North Carolina.....	76,486	56,127	20,359	44,717	34,842	9,875	27,718	18,473	9,245	4,051	2,812	1,239
South Carolina.....	54,799	33,441	21,358	33,617	22,469	11,148	18,440	9,318	9,122	2,742	1,654	1,088
Georgia.....	64,546	45,420	19,126	40,461	30,405	10,056	20,384	12,603	7,781	3,701	2,412	1,289
Florida.....	15,993	12,928	3,065	8,819	7,122	1,697	5,883	4,805	1,078	1,291	1,001	290
North Central division.	1,121,016	1,006,158	114,858	509,234	457,611	51,623	493,809	447,514	46,295	117,973	101,033	16,940
Ohio.....	220,554	199,635	20,919	100,343	90,080	10,263	97,471	89,646	7,825	22,740	19,909	2,831
Indiana.....	127,488	117,424	10,064	55,407	51,955	4,052	57,819	53,363	4,456	14,262	12,706	1,556
Illinois.....	185,154	166,843	18,311	91,311	82,598	8,713	76,946	69,831	7,115	16,897	14,414	2,483
Michigan.....	131,003	117,940	13,063	58,864	52,717	6,147	58,361	53,448	4,913	13,778	11,775	2,003
Wisconsin.....	85,855	76,051	9,804	39,164	34,896	4,268	36,888	32,854	4,034	9,803	8,301	1,502
Minnesota.....	65,583	58,008	7,575	27,662	24,225	3,437	30,125	27,255	2,870	7,796	6,528	1,268
Iowa.....	76,124	65,763	10,361	31,105	26,936	4,169	36,810	32,199	4,611	8,209	6,628	1,581
Missouri.....	118,413	106,236	12,177	57,215	51,824	5,391	49,621	44,485	5,136	11,577	9,927	1,650
North Dakota.....	7,237	6,250	987	2,631	2,268	363	3,861	3,383	478	745	599	146
South Dakota.....	13,538	11,999	1,539	5,646	5,086	560	6,374	5,649	725	1,518	1,264	254
Nebraska.....	39,160	34,644	4,516	19,398	17,159	2,239	15,610	14,075	1,535	4,152	3,410	742
Kansas.....	50,907	45,365	5,542	20,488	18,467	2,021	23,923	21,326	2,597	6,496	5,572	924
South Central division.	600,008	500,258	99,750	369,294	314,012	55,282	194,993	156,894	38,099	35,721	29,352	6,369
Kentucky.....	93,569	84,913	8,656	46,013	42,086	3,927	38,969	35,504	3,465	8,587	7,323	1,264
Tennessee.....	129,916	118,430	11,486	84,355	78,835	5,520	38,333	33,328	5,005	7,228	6,267	961
Alabama.....	73,787	54,193	19,594	51,912	39,206	12,706	19,098	12,962	6,136	2,777	2,025	752
Mississippi.....	74,705	50,160	24,545	48,334	34,097	14,237	23,470	14,113	9,357	2,901	1,950	951
Louisiana.....	69,584	50,127	19,457	41,001	30,202	10,799	23,759	16,178	7,581	4,824	3,747	1,077
Texas.....	74,072	65,235	8,837	45,007	40,668	4,339	23,831	20,170	3,661	5,234	4,397	837
Oklahoma.....	2,138	2,034	104	602	576	26	1,092	1,035	57	444	423	21
Arkansas.....	82,237	75,166	7,071	52,070	48,342	3,728	26,441	23,604	2,837	3,726	3,220	506
Western division.....	235,057	222,049	13,008	112,530	107,028	5,502	95,056	89,786	5,270	27,471	25,235	2,236
Montana.....	15,518	15,091	427	8,630	8,426	204	5,348	5,205	143	1,540	1,460	80
Wyoming.....	6,809	6,634	175	3,756	3,681	75	2,327	2,259	68	726	694	32
Colorado.....	29,938	28,404	1,534	16,089	15,337	752	10,858	10,299	559	2,991	2,768	223
New Mexico.....	10,149	9,772	377	4,488	4,338	150	4,788	4,640	148	873	794	79
Arizona.....	3,488	3,260	228	1,402	1,323	79	1,573	1,467	106	513	470	43
Utah.....	14,078	13,326	752	5,999	5,710	289	6,809	6,467	342	1,270	1,149	121
Nevada.....	5,227	4,995	232	1,886	1,799	87	2,489	2,380	109	852	816	36
Idaho.....	7,332	7,092	240	3,267	3,168	99	3,180	3,086	94	885	838	47
Washington.....	33,632	32,368	1,264	19,135	18,592	543	11,402	10,911	491	3,095	2,865	230
Oregon.....	18,293	17,100	1,193	8,390	7,904	486	7,457	6,956	501	2,446	2,240	206
California.....	90,593	84,007	6,586	39,488	36,750	2,738	38,825	36,116	2,709	12,280	11,141	1,139

(a) Unemployed at principal occupation during any portion of census year ending May 31, 1890.

TABLE 11.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY SEX AND MONTHS UNEMPLOYED, BY STATES AND TERRITORIES: 1890—Cont'd.

AGRICULTURE, FISHERIES, AND MINING.

STATES AND TERRITORIES.	PERSONS UNEMPLOYED DURING PORTION OF CENSUS YEAR. (a)											
	Aggregate.			1 to 3 months.			4 to 6 months.			7 to 12 months.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
The United States..	1,229,800	1,120,827	108,973	676,460	615,824	60,636	468,341	424,368	43,973	84,999	80,635	4,364
North Atlantic division..	205,735	205,112	623	86,357	86,117	240	99,043	98,759	284	20,335	20,236	99
Maine	10,035	9,994	41	4,634	4,618	16	4,065	4,048	17	736	728	8
New Hampshire	2,827	2,819	8	1,311	1,310	1	1,192	1,188	4	324	321	3
Vermont	5,194	5,175	19	2,596	2,587	9	2,062	2,057	5	536	531	5
Massachusetts	12,502	12,466	36	6,542	6,530	12	4,716	4,702	14	1,244	1,234	10
Rhode Island	1,627	1,621	6	662	657	5	788	787	1	177	177	0
Connecticut	3,777	3,771	6	1,788	1,785	3	1,599	1,599	0	390	387	3
New York	50,415	50,183	232	19,503	19,434	69	26,628	26,498	130	4,284	4,251	33
New Jersey	9,760	9,727	33	5,206	5,192	14	3,833	3,820	13	721	715	6
Pennsylvania	109,598	109,356	242	44,115	44,004	111	53,560	53,460	100	11,923	11,892	31
South Atlantic division..	221,866	177,684	44,182	138,964	116,195	22,769	71,713	52,537	19,176	11,189	8,952	2,237
Delaware	3,326	3,309	17	2,149	2,136	13	1,032	1,028	4	145	145	0
Maryland	19,351	19,054	297	10,519	10,435	84	7,645	7,465	180	1,187	1,154	32
District of Columbia..	221	218	3	117	115	2	78	77	1	26	26	0
Virginia	26,834	24,917	1,917	15,390	14,645	745	9,572	8,549	1,023	1,872	1,723	149
West Virginia	30,994	30,821	173	21,089	21,012	77	8,321	8,236	85	1,584	1,573	11
North Carolina	53,338	40,857	12,481	32,909	26,794	6,115	18,084	12,362	5,722	2,345	1,701	644
South Carolina	41,888	25,269	16,619	26,583	17,794	8,789	13,565	6,407	7,158	1,740	1,068	672
Georgia	41,058	29,547	11,511	27,120	20,977	6,143	12,006	7,288	4,718	1,932	1,282	650
Florida	4,856	3,692	1,164	3,088	2,287	801	1,410	1,125	285	358	280	78
North Central division..	307,197	305,795	1,402	139,255	138,707	548	139,633	138,952	681	28,309	28,136	173
Ohio	60,371	60,135	236	24,858	24,772	86	29,870	29,745	125	5,643	5,618	25
Indiana	43,043	42,849	194	19,407	19,320	87	19,279	19,189	90	4,357	4,340	17
Illinois	52,802	52,587	215	25,704	25,624	80	23,502	23,391	111	3,596	3,572	24
Michigan	27,864	27,714	150	13,306	13,261	45	12,431	12,349	82	2,127	2,104	23
Wisconsin	16,044	15,945	99	7,145	7,113	32	6,444	6,397	47	2,455	2,435	20
Minnesota	12,874	12,828	46	5,276	5,263	13	6,106	6,079	27	1,492	1,486	6
Iowa	23,208	23,131	77	10,048	10,017	31	10,614	10,581	33	2,546	2,533	13
Missouri	37,650	37,417	233	18,811	18,699	112	16,014	15,919	95	2,825	2,799	26
North Dakota	3,544	3,525	19	1,151	1,145	6	2,106	2,093	13	287	287	0
South Dakota	5,011	4,987	24	1,887	1,877	10	2,600	2,589	11	524	521	3
Nebraska	9,314	9,264	50	4,787	4,771	16	3,573	3,548	25	954	945	9
Kansas	15,472	15,413	59	6,875	6,845	30	7,094	7,072	22	1,503	1,496	7
South Central division..	414,066	351,520	62,546	273,592	236,605	36,987	123,563	99,828	23,735	16,911	15,087	1,824
Kentucky	49,058	48,481	577	24,584	24,392	192	20,807	20,473	334	3,667	3,616	51
Tennessee	96,001	91,199	4,802	66,502	64,171	2,331	25,468	23,174	2,294	4,031	3,854	177
Alabama	54,344	39,175	15,169	40,052	29,746	10,306	12,788	8,323	4,465	1,504	1,106	398
Mississippi	61,611	41,436	20,175	41,203	29,297	11,906	18,658	10,869	7,789	1,750	1,270	480
Louisiana	89,793	27,114	12,679	26,826	19,482	7,344	11,573	6,541	5,032	1,394	1,091	303
Texas	42,494	38,463	4,031	28,503	26,364	2,139	11,916	10,195	1,721	2,075	1,904	171
Oklahoma	906	899	7	281	279	2	435	431	4	190	189	1
Arkansas	69,859	64,753	5,106	45,641	42,874	2,767	21,918	19,822	2,096	2,300	2,057	243
Western division	80,936	80,716	220	38,292	38,200	92	34,389	34,292	97	8,255	8,224	31
Montana	6,470	6,468	2	3,706	3,705	1	2,181	2,180	1	583	583	0
Wyoming	2,540	2,536	4	1,164	1,163	1	1,055	1,054	1	321	319	2
Colorado	10,998	10,989	9	5,560	5,555	5	4,452	4,448	4	986	986	0
New Mexico	5,497	5,462	35	2,345	2,330	15	2,801	2,791	10	351	341	10
Arizona	1,099	1,097	2	475	474	1	488	487	1	136	136	0
Utah	5,031	5,013	18	2,130	2,124	6	2,592	2,581	11	309	308	1
Nevada	2,828	2,822	6	1,020	1,019	1	1,359	1,355	4	449	448	1
Idaho	3,637	3,633	4	1,516	1,513	3	1,703	1,703	0	418	417	1
Washington	7,964	7,929	35	4,252	4,243	9	2,963	2,945	18	749	741	8
Oregon	6,619	6,599	20	3,047	3,037	10	2,682	2,675	7	890	887	3
California	28,253	28,168	85	13,077	13,037	40	12,113	12,073	40	3,033	3,058	5

(a) Unemployed at principal occupation during any portion of census year ending May 31, 1890.

TABLE 11.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY SEX AND MONTHS UNEMPLOYED, BY STATES AND TERRITORIES: 1890—Cont'd.**PROFESSIONAL SERVICE.**

STATES AND TERRITORIES.	PERSONS UNEMPLOYED DURING PORTION OF CENSUS YEAR. (a)											
	Aggregate.			1 to 3 months.			4 to 6 months.			7 to 12 months.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
The United States.	142,574	54,654	87,920	65,323	23,809	41,514	55,691	23,097	32,594	21,560	7,748	13,812
North Atlantic division..	41,524	13,332	28,192	21,662	6,461	15,211	14,378	5,184	9,194	5,484	1,697	3,787
Maine	3,012	549	2,463	1,107	260	847	1,455	225	1,230	450	64	386
New Hampshire.....	1,105	204	901	423	96	327	517	77	440	165	31	134
Vermont.....	1,239	198	1,041	584	108	476	507	63	444	148	27	121
Massachusetts.....	5,616	1,555	4,061	3,595	790	2,805	1,326	546	780	695	219	476
Rhode Island.....	664	193	471	419	102	317	158	60	98	87	31	56
Connecticut.....	1,597	361	1,236	1,015	200	815	372	102	270	210	59	151
New York.....	14,328	4,901	9,427	7,425	2,426	4,999	4,805	1,817	2,988	2,098	658	1,440
New Jersey.....	2,342	912	1,430	1,730	559	1,171	353	253	100	259	100	159
Pennsylvania.....	11,621	4,459	7,162	5,304	1,910	3,454	4,885	2,041	2,844	1,372	508	864
South Atlantic division..	13,048	5,667	7,381	5,793	2,400	3,393	5,084	2,386	2,698	2,171	881	1,290
Delaware.....	326	120	206	225	74	151	70	35	35	31	11	20
Maryland.....	2,019	825	1,194	1,230	452	778	513	268	245	276	105	171
District of Columbia..	400	162	238	262	81	181	84	57	27	54	24	30
Virginia.....	3,117	1,097	2,020	1,229	411	818	1,181	466	715	707	220	487
West Virginia.....	1,731	920	811	493	282	211	870	440	421	368	189	179
North Carolina.....	1,925	959	966	811	401	410	855	438	417	259	120	139
South Carolina.....	1,158	449	709	524	205	319	484	192	292	150	52	98
Georgia.....	1,765	821	944	884	415	469	664	308	356	217	98	119
Florida.....	607	314	293	135	79	56	303	173	190	109	62	47
North Central division...	64,711	23,516	41,195	28,108	9,757	18,351	26,930	10,517	16,413	9,673	3,242	6,431
Ohio.....	11,171	5,265	5,906	5,445	2,188	3,257	4,227	2,395	1,832	1,499	682	817
Indiana.....	6,377	3,020	3,357	2,147	940	1,198	3,275	1,661	1,614	955	410	545
Illinois.....	9,431	3,490	5,941	4,147	1,473	2,674	3,954	1,551	2,403	1,330	466	864
Michigan.....	5,935	1,979	3,956	3,086	942	2,144	1,982	773	1,209	807	264	543
Wisconsin.....	4,757	1,858	3,399	2,075	594	1,481	1,877	524	1,353	805	240	565
Minnesota.....	4,132	1,171	2,961	1,941	545	1,396	1,521	451	1,070	670	175	495
Iowa.....	7,882	1,679	6,203	3,123	708	2,415	3,550	750	2,800	1,209	221	988
Missouri.....	6,115	2,611	3,504	2,450	1,074	1,385	2,775	1,178	1,597	881	359	522
North Dakota.....	608	184	424	222	85	137	286	71	215	100	28	72
South Dakota.....	1,105	301	804	385	128	257	529	127	402	191	46	145
Nebraska.....	3,115	941	2,174	1,663	510	1,153	976	304	672	476	127	349
Kansas.....	4,083	1,517	2,566	1,415	561	854	1,978	732	1,246	690	224	466
South Central division...	15,781	8,221	7,560	6,515	3,514	3,001	6,323	3,411	2,912	2,943	1,206	1,647
Kentucky.....	3,436	1,694	1,742	1,364	609	695	1,293	703	590	779	322	457
Tennessee.....	2,874	1,547	1,327	1,209	646	563	1,178	680	518	487	241	246
Alabama.....	1,614	820	794	795	431	364	613	296	317	206	93	113
Mississippi.....	1,588	648	940	626	291	335	641	266	375	321	91	230
Louisiana.....	1,354	592	762	619	255	364	493	239	254	242	98	144
Texas.....	3,561	2,055	1,506	1,370	872	498	1,547	878	669	644	305	339
Oklahoma.....	100	64	36	21	13	8	52	32	20	27	19	8
Arkansas.....	1,254	801	453	511	337	174	506	337	169	237	127	110
Western division.....	7,510	3,918	3,592	3,245	1,687	1,558	2,976	1,599	1,377	1,289	632	657
Montana.....	327	202	125	143	95	48	124	81	43	60	26	34
Wyoming.....	124	63	61	43	33	10	58	21	37	23	9	14
Colorado.....	962	493	469	442	220	222	373	196	177	147	77	70
New Mexico.....	161	112	49	50	44	22	71	51	20	24	17	7
Arizona.....	119	74	45	41	27	14	52	33	19	26	14	12
Utah.....	369	204	165	186	105	81	123	70	53	60	29	31
Nevada.....	147	59	88	70	23	47	52	21	31	25	15	10
Idaho.....	162	80	82	74	43	31	66	31	35	22	6	16
Washington.....	946	599	347	416	278	138	363	234	129	167	87	80
Oregon.....	948	471	477	393	204	189	387	191	196	168	76	92
California.....	3,245	1,561	1,684	1,371	615	756	1,307	670	637	567	276	291

(a) Unemployed at principal occupation during any portion of census year ending May 31, 1890.

TABLE 11.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY SEX AND MONTHS UNEMPLOYED, BY STATES AND TERRITORIES: 1890—Cont'd.

DOMESTIC AND PERSONAL SERVICE.

STATES AND TERRITORIES.	PERSONS UNEMPLOYED DURING PORTION OF CENSUS YEAR. (a)											
	Aggregate.			1 to 3 months.			4 to 6 months.			7 to 12 months.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
The United States.	820,081	689,307	130,774	380,354	317,566	62,788	352,678	300,004	52,674	87,049	71,737	15,312
North Atlantic division..	275,710	237,306	38,404	128,050	109,755	18,295	115,560	100,580	14,980	32,100	26,971	5,129
Maine	10,073	8,789	1,284	4,678	4,076	602	4,410	3,902	508	985	811	174
New Hampshire	3,305	2,786	519	1,688	1,414	274	1,232	1,054	178	385	318	67
Vermont	4,124	3,070	1,054	1,943	1,476	467	1,711	1,254	457	470	340	130
Massachusetts	32,240	26,079	6,161	15,246	12,152	3,094	13,001	10,847	2,154	3,993	3,080	913
Rhode Island	4,663	3,915	748	2,145	1,835	310	1,834	1,526	308	684	554	130
Connecticut	6,950	5,895	1,055	3,362	2,880	482	2,761	2,339	422	827	676	151
New York	91,931	75,712	16,219	40,323	32,605	7,718	41,068	34,710	6,358	10,540	8,397	2,143
New Jersey	19,743	16,865	2,878	10,828	9,339	1,489	6,933	5,933	1,000	1,982	1,593	389
Pennsylvania	102,681	94,195	8,486	47,837	43,978	3,859	42,610	39,015	3,595	12,234	11,202	1,032
South Atlantic division..	88,557	58,846	29,711	44,846	30,038	14,808	35,824	23,726	12,098	7,887	5,082	2,805
Delaware	2,697	2,216	481	1,515	1,250	265	967	801	166	215	185	50
Maryland	19,788	14,885	4,903	8,931	6,637	2,294	8,535	6,546	1,989	2,322	1,702	620
District of Columbia..	6,055	3,062	2,993	3,125	1,832	1,293	2,253	1,449	804	677	381	296
Virginia	18,903	12,555	6,348	9,632	6,413	3,219	7,607	5,087	2,520	1,664	1,055	609
West Virginia	6,855	5,932	923	3,232	2,814	418	2,956	2,555	401	607	563	104
North Carolina	10,685	5,829	4,856	5,677	3,251	2,426	4,306	2,212	2,094	702	366	336
South Carolina	6,939	3,783	3,156	3,867	2,290	1,577	2,612	1,270	1,342	460	223	237
Georgia	11,988	6,382	5,606	6,655	3,835	2,820	4,531	2,174	2,357	802	373	429
Florida	4,647	3,602	1,045	2,212	1,716	496	2,057	1,632	425	378	254	124
North Central division...	306,561	271,319	35,242	132,050	116,256	15,794	141,945	127,149	14,796	32,566	27,914	4,652
Ohio	60,314	54,230	6,075	26,093	23,424	2,669	27,826	25,242	2,584	6,395	5,573	822
Indiana	34,210	31,203	3,007	13,908	12,587	1,321	16,494	15,204	1,290	3,808	3,412	396
Illinois	47,420	42,097	5,323	21,942	19,389	2,553	20,832	18,728	2,104	4,646	3,980	666
Michigan	41,294	36,784	4,510	17,670	15,662	2,008	18,912	17,017	1,895	4,712	4,105	607
Wisconsin	27,045	24,056	2,989	12,003	10,736	1,267	12,331	11,031	1,300	2,711	2,289	422
Minnesota	21,186	18,464	2,722	8,741	7,493	1,248	10,051	8,996	1,055	2,394	1,975	419
Iowa	18,364	16,189	2,175	7,078	6,089	989	9,584	8,645	939	1,702	1,455	247
Missouri	29,208	24,562	4,646	13,044	10,991	2,053	13,121	11,087	2,034	3,043	2,484	559
North Dakota	1,477	1,062	415	594	420	174	703	517	180	180	125	55
South Dakota	2,934	2,466	468	1,300	1,097	203	1,337	1,130	207	297	239	58
Nebraska	10,589	9,282	1,307	5,131	4,511	620	4,420	3,936	484	1,038	835	203
Kansas	12,520	10,915	1,605	4,546	3,857	689	6,334	5,616	718	1,640	1,442	198
South Central division...	83,392	60,889	22,503	43,241	31,561	11,680	33,076	24,272	8,804	7,075	5,056	2,019
Kentucky	17,465	13,888	3,577	8,106	6,474	1,632	7,660	6,132	1,528	1,699	1,282	417
Tennessee	14,089	10,064	4,025	7,311	5,351	1,960	5,650	3,960	1,690	1,128	753	375
Alabama	8,789	5,696	3,093	5,327	3,577	1,750	3,007	1,841	1,166	455	278	177
Mississippi	6,685	3,688	2,997	3,818	2,074	1,744	2,433	1,367	1,066	434	247	187
Louisiana	17,937	12,903	5,034	9,023	6,440	2,583	7,219	5,277	1,942	1,695	1,186	509
Texas	12,763	10,227	2,536	6,681	5,337	1,344	4,968	4,011	957	1,114	879	235
Oklahoma	316	282	34	97	87	10	170	153	17	49	42	7
Arkansas	5,348	4,141	1,207	2,878	2,221	657	1,969	1,531	438	501	389	112
Western division	65,861	60,947	4,914	32,167	29,956	2,211	26,273	24,277	1,996	7,421	6,714	707
Montana	4,124	3,915	209	2,328	2,213	115	1,365	1,296	69	431	406	25
Wyoming	2,005	1,930	75	1,346	1,301	45	515	496	19	144	133	11
Colorado	7,270	6,602	668	3,991	3,646	345	2,544	2,302	242	735	654	81
New Mexico	3,220	3,035	185	1,473	1,397	76	1,419	1,345	74	328	293	35
Arizona	1,312	1,201	111	446	410	36	656	599	57	210	192	18
Utah	4,023	3,699	324	1,655	1,532	123	2,030	1,871	159	338	296	42
Nevada	994	895	99	364	332	32	473	424	49	157	139	18
Idaho	1,843	1,745	98	948	905	43	709	669	40	186	171	15
Washington	10,379	9,894	485	6,172	5,947	225	3,338	3,153	185	869	794	75
Oregon	4,559	4,219	340	2,245	2,076	169	1,801	1,675	126	513	458	45
California	26,132	23,812	2,320	11,199	10,197	1,002	11,423	10,447	976	3,510	3,168	342

a Unemployed at principal occupation during any portion of census year ending May 31, 1890.

TABLE 11.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY SEX AND MONTHS UNEMPLOYED, BY STATES AND TERRITORIES: 1890—Cont'd.

TRADE AND TRANSPORTATION.

STATES AND TERRITORIES.	PERSONS UNEMPLOYED DURING PORTION OF CENSUS YEAR. (a)											
	Aggregate.			1 to 3 months.			4 to 6 months.			7 to 12 months.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
The United States	262,871	247,757	15,114	133,921	126,931	6,990	98,060	92,637	5,423	30,890	28,189	2,701
North Atlantic division	95,381	87,823	7,558	48,699	44,854	3,845	34,522	32,002	2,520	12,100	10,967	1,193
Maine	4,894	4,646	248	2,603	2,503	100	1,847	1,744	103	444	399	45
New Hampshire	1,356	1,264	92	788	741	47	409	376	33	159	147	12
Vermont	1,167	1,099	68	608	576	32	404	384	20	155	139	16
Massachusetts	14,262	12,374	1,888	7,427	6,480	947	4,865	4,202	663	1,970	1,692	278
Rhode Island	2,186	1,899	287	1,135	979	156	690	616	74	361	304	57
Connecticut	2,683	2,279	404	1,383	1,140	243	948	841	107	352	298	54
New York	34,114	31,535	2,579	15,903	14,595	1,308	13,817	12,942	875	4,394	3,998	396
New Jersey	8,200	7,685	515	4,978	4,653	325	2,302	2,156	146	980	876	104
Pennsylvania	26,459	25,042	1,417	13,874	13,187	687	9,240	8,741	499	3,345	3,114	231
South Atlantic division	22,342	21,148	1,194	12,038	11,563	475	7,769	7,332	437	2,535	2,253	282
Delaware	684	630	54	425	402	23	196	176	20	63	52	11
Maryland	5,492	5,040	452	2,606	2,430	176	2,016	1,838	178	870	772	98
District of Columbia	1,603	1,334	269	781	689	92	521	441	80	301	204	97
Virginia	4,670	4,544	126	2,589	2,532	57	1,646	1,598	48	435	414	21
West Virginia	2,570	2,492	78	1,515	1,479	36	813	787	26	242	226	16
North Carolina	2,104	2,053	51	1,238	1,210	28	724	707	17	142	136	6
South Carolina	1,044	1,005	39	578	558	20	365	352	13	101	95	6
Georgia	3,226	3,121	105	1,854	1,813	41	1,095	1,053	42	277	255	22
Florida	949	929	20	452	450	2	393	380	13	104	99	5
North Central division	94,479	89,449	5,030	46,002	43,916	2,086	37,891	35,915	1,976	10,586	9,618	968
Ohio	15,455	14,599	856	7,548	7,175	373	6,187	5,841	346	1,720	1,583	137
Indiana	8,758	8,376	382	4,123	3,973	150	3,577	3,427	150	1,058	976	82
Illinois	15,508	14,393	1,115	7,815	7,358	457	5,868	5,419	449	1,825	1,616	209
Michigan	11,593	11,037	556	5,255	5,025	230	5,205	4,996	209	1,133	1,016	117
Wisconsin	6,385	6,065	320	3,004	2,858	146	2,725	2,617	108	656	590	66
Minnesota	6,800	6,402	398	3,198	3,014	184	2,755	2,613	142	847	775	72
Iowa	6,671	6,398	273	3,165	3,064	101	2,816	2,702	114	690	632	58
Missouri	12,071	11,468	603	6,254	6,011	243	4,428	4,196	232	1,389	1,261	128
North Dakota	485	463	22	251	244	7	186	174	12	48	45	3
South Dakota	1,479	1,444	35	886	868	18	457	450	7	136	126	10
Nebraska	4,092	3,867	225	2,091	1,996	95	1,557	1,467	90	444	404	40
Kansas	5,182	4,937	245	2,412	2,330	82	2,130	2,013	117	640	594	46
South Central division	26,211	25,582	629	14,558	14,270	288	8,970	8,748	222	2,683	2,564	119
Kentucky	5,269	5,034	235	2,768	2,668	100	1,898	1,817	81	603	549	54
Tennessee	5,246	5,120	126	3,099	3,040	59	1,671	1,620	51	476	460	16
Alabama	3,288	3,252	36	2,226	2,204	22	861	850	11	201	198	3
Mississippi	1,677	1,659	18	973	967	6	572	565	7	132	126	6
Louisiana	3,283	3,206	77	1,420	1,386	34	1,368	1,343	25	495	477	18
Texas	5,590	5,484	106	3,084	3,028	56	1,973	1,939	34	533	517	16
Oklahoma	168	162	6	53	50	3	53	50	3	32	32	0
Arkansas	1,090	1,665	25	935	927	8	544	533	11	211	205	6
Western division	24,458	23,755	703	12,624	12,328	296	8,908	8,640	268	2,926	2,787	139
Montana	1,430	1,407	23	867	862	5	426	417	9	137	128	9
Wyoming	1,140	1,134	6	679	676	3	343	341	2	118	117	1
Colorado	4,276	4,181	95	2,507	2,458	49	1,383	1,355	28	386	368	18
New Mexico	527	523	4	276	275	1	201	200	1	50	48	2
Arizona	410	404	6	193	191	2	165	163	2	52	50	2
Utah	1,181	1,143	38	572	555	17	490	477	13	119	111	8
Nevada	528	524	4	221	218	3	224	223	1	83	83	0
Idaho	746	735	11	356	351	5	284	280	4	106	104	2
Washington	3,614	3,519	95	2,220	2,183	37	1,057	1,018	39	337	318	19
Oregon	1,568	1,519	49	767	749	18	609	590	19	192	180	12
California	9,038	8,666	372	3,966	3,810	156	3,726	3,576	150	1,346	1,280	66

a Unemployed at principal occupation during any portion of census year ending May 31, 1890.

TABLE 11.—TOTAL PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY SEX AND MONTHS UNEMPLOYED, BY STATES AND TERRITORIES: 1890—Cont'd.**MANUFACTURING AND MECHANICAL INDUSTRIES.**

STATES AND TERRITORIES.	PERSONS UNEMPLOYED DURING PORTION OF CENSUS YEAR. (a)											
	Aggregate.			1 to 3 months.			4 to 6 months.			7 to 12 months.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
The United States.	1,068,404	900,572	167,832	562,807	469,629	93,178	393,648	339,320	54,328	111,949	91,623	20,326
North Atlantic division.	525,843	413,350	112,493	302,126	235,031	67,095	170,080	137,459	32,621	53,637	40,860	12,777
Maine	19,346	15,381	3,965	10,031	7,834	2,197	7,355	6,000	1,355	1,960	1,547	413
New Hampshire.....	12,491	8,894	3,597	7,798	5,503	2,295	3,414	2,603	811	1,279	788	491
Vermont.....	5,707	4,812	895	3,085	2,627	458	1,911	1,645	266	711	540	171
Massachusetts.....	114,842	83,900	30,942	70,865	51,862	19,003	33,020	24,492	8,528	10,957	7,546	3,411
Rhode Island.....	14,575	9,983	4,592	8,581	5,885	2,696	3,967	2,811	1,156	2,027	1,287	740
Connecticut.....	24,529	17,943	6,586	15,441	11,148	4,293	6,639	4,988	1,641	2,449	1,797	652
New York.....	158,059	125,795	32,264	84,504	65,677	18,827	57,345	47,454	9,891	16,210	12,664	3,546
New Jersey.....	49,673	40,007	9,666	30,175	24,003	6,172	14,915	12,271	2,644	4,583	3,733	850
Pennsylvania.....	126,621	106,635	19,986	71,646	60,492	11,154	41,514	35,185	6,329	13,461	10,958	2,503
South Atlantic division.	77,643	64,384	13,259	39,272	32,704	6,568	30,587	25,267	5,320	7,784	6,413	1,371
Delaware.....	2,851	2,469	382	1,747	1,557	190	834	693	141	270	219	51
Maryland.....	21,218	17,170	4,048	10,054	7,968	2,086	8,369	6,955	1,414	2,795	2,247	548
District of Columbia.	3,876	3,405	471	1,959	1,749	210	1,406	1,243	163	511	413	98
Virginia.....	17,690	14,230	3,460	8,207	6,699	1,508	7,846	6,209	1,637	1,637	1,322	315
West Virginia.....	8,861	7,806	555	4,278	3,968	310	3,221	3,041	180	862	797	65
North Carolina.....	8,434	6,429	2,005	4,082	3,186	896	3,749	2,754	995	603	489	114
South Carolina.....	3,770	2,935	835	2,065	1,622	443	1,414	1,097	317	291	216	75
Georgia.....	6,509	5,549	960	3,948	3,365	583	2,088	1,780	308	473	404	69
Florida.....	4,934	4,391	543	2,932	2,590	342	1,660	1,495	165	312	306	36
North Central division.	348,068	316,079	31,989	163,819	148,975	14,844	147,410	134,981	12,429	36,839	32,123	4,716
Ohio.....	73,243	65,397	7,846	36,399	32,521	3,878	29,361	26,423	2,938	7,483	6,453	1,030
Indiana.....	35,100	31,976	3,124	15,822	14,526	1,296	15,194	13,882	1,312	4,084	3,568	516
Illinois.....	59,993	54,276	5,717	31,703	28,754	2,949	22,790	20,742	2,048	5,500	4,780	720
Michigan.....	44,817	40,426	3,891	19,547	17,827	1,720	19,831	18,313	1,518	4,939	4,286	653
Wisconsin.....	31,624	28,627	2,997	14,937	13,595	1,342	13,511	12,285	1,226	3,176	2,747	429
Minnesota.....	20,591	19,143	1,448	8,506	7,910	596	9,692	9,116	576	2,393	2,117	276
Iowa.....	19,999	18,366	1,633	7,691	7,058	633	10,246	9,521	725	2,062	1,787	275
Missouri.....	33,369	30,178	3,191	16,647	15,049	1,598	13,283	12,105	1,178	3,439	3,024	415
North Dakota.....	1,123	1,016	107	413	374	39	580	528	52	130	114	16
South Dakota.....	3,009	2,801	208	1,188	1,116	72	1,451	1,353	98	370	332	38
Nebraska.....	12,050	11,290	760	5,726	5,371	355	5,084	4,820	264	1,240	1,099	141
Kansas.....	13,650	12,583	1,067	5,240	4,874	366	6,387	5,893	494	2,023	1,816	207
South Central division.	60,558	54,046	6,512	31,388	28,062	3,326	23,061	20,635	2,426	6,109	5,349	760
Kentucky.....	18,841	15,816	2,525	9,191	7,883	1,308	7,311	6,379	932	1,839	1,554	285
Tennessee.....	17,706	10,500	1,206	6,234	5,627	607	4,366	3,914	452	1,106	959	147
Alabama.....	5,752	5,250	502	3,512	3,248	264	1,829	1,652	177	411	350	61
Mississippi.....	3,144	2,729	415	1,714	1,468	246	1,166	1,045	121	264	216	48
Louisiana.....	7,217	6,312	905	3,113	2,639	474	3,106	2,778	328	998	895	103
Texas.....	9,664	9,006	658	5,369	5,067	302	3,427	3,147	280	868	792	76
Oklahoma.....	648	627	21	150	147	3	352	339	13	146	141	5
Arkansas.....	4,086	3,806	280	2,105	1,983	122	1,504	1,381	123	477	442	35
Western division.	56,292	52,713	3,579	26,202	24,857	1,345	22,510	20,978	1,532	7,580	6,878	702
Montana.....	3,167	3,099	68	1,586	1,551	35	1,252	1,231	21	329	317	12
Wyoming.....	1,006	971	29	524	508	16	356	347	9	120	116	4
Colorado.....	6,432	6,139	293	3,589	3,458	131	2,106	1,998	108	737	683	54
New Mexico.....	744	640	104	328	292	36	296	253	43	120	95	25
Arizona.....	548	484	64	247	221	26	212	185	27	89	78	11
Utah.....	3,474	3,267	207	1,456	1,394	62	1,574	1,468	106	444	405	39
Nevada.....	730	695	35	211	207	4	381	357	24	138	131	7
Idaho.....	944	899	45	373	356	17	418	403	15	153	140	13
Washington.....	10,729	10,427	302	6,075	5,941	134	3,681	3,561	120	973	925	48
Oregon.....	4,599	4,292	307	1,938	1,838	100	1,978	1,825	153	683	629	54
California.....	23,925	21,800	2,125	9,875	9,091	784	10,256	9,350	906	3,794	3,359	435

a Unemployed at principal occupation during any portion of census year ending May 31, 1890.

TABLE 12.—TOTAL PERSONS 10 YEARS OF AGE AND OVER IN THE UNITED STATES ENGAGED IN EACH SPECIFIED OCCUPATION, CLASSIFIED BY SEX AND MONTHS UNEMPLOYED: 1890.

OCCUPATIONS.	PERSONS UNEMPLOYED DURING PORTION OF CENSUS YEAR. (b)											
	Aggregate.			1 to 3 months.			4 to 6 months.			7 to 12 months.		
	Total.	Males.	Fe- males.	Total.	Males.	Fe- males.	Total.	Males.	Fe- males.	Total.	Males.	Fe- males.
All occupations.....	3,523,730	3,013,117	510,613	1,818,865	1,553,759	265,106	1,368,418	1,179,426	188,992	336,447	279,932	56,515
Agriculture, fisheries, and mining.....	1,229,800	1,120,827	108,973	676,460	615,824	60,636	468,341	424,368	43,973	84,999	80,635	4,364
Agricultural laborers (a).....	625,521	525,278	100,243	342,304	286,598	55,706	243,126	202,434	40,692	40,091	36,246	3,845
Apiarists.....	209	208	1	57	57	.....	114	113	1	88	88	.....
Dairymen and dairywomen.....	1,172	1,105	67	567	540	27	472	442	30	133	123	10
Farmers, planters, and overseers (a).....	342,800	334,666	8,134	220,461	215,774	4,687	102,748	99,755	2,993	19,591	19,137	454
Fishermen and oystermen (a).....	24,273	24,178	95	10,913	10,875	38	11,095	11,044	51	1,665	1,659	6
Gardeners, florists, nurserymen, and vine growers.....	9,484	9,306	178	3,239	3,167	72	4,987	4,903	84	1,258	1,236	22
Lumbermen and raftsmen.....	19,397	10,391	6	11,412	11,410	2	6,601	6,598	3	1,384	1,383	1
Miners (coal).....	128,836	128,734	102	48,722	48,687	35	67,182	67,125	57	12,932	12,922	10
Miners (not otherwise specified).....	43,535	43,518	17	20,173	20,164	9	18,182	18,175	7	5,180	5,179	1
Quarrymen.....	12,951	12,941	10	7,270	7,265	5	4,720	4,715	5	961	961	.....
Stock raisers, herders, and drovers.....	8,146	8,113	33	3,644	3,632	12	3,608	3,591	17	894	890	4
Wood choppers.....	10,552	10,545	7	5,843	5,840	3	3,994	3,991	3	715	714	1
Other agricultural pursuits (a).....	2,924	2,844	80	1,855	1,815	40	912	882	30	157	147	10
Professional service.....	142,574	54,654	87,920	65,323	23,809	41,514	55,691	23,097	32,594	21,560	7,748	13,812
Actors.....	2,085	1,230	855	1,013	611	402	798	468	330	274	151	123
Architects.....	298	297	1	153	153	.....	109	108	1	36	36	.....
Artists and teachers of art.....	1,625	822	803	678	353	325	628	295	333	319	174	145
Authors and literary and scientific persons.....	392	201	191	178	88	90	149	81	68	65	32	33
Chemists, assayers, and metallurgists.....	267	258	9	131	126	5	91	89	2	45	43	2
Clergymen.....	1,915	1,861	54	754	731	23	831	810	21	330	320	10
Dentists.....	428	417	11	192	186	6	158	153	5	78	78	.....
Designers, draftsmen, and inventors.....	498	482	16	257	245	12	156	153	3	85	84	1
Engineers (civil, mechanical, electrical, and min- ing) and surveyors.....	4,281	4,277	4	1,967	1,964	3	1,705	1,704	1	609	609	.....
Journalists.....	662	625	37	312	296	16	231	220	11	119	109	10
Lawyers.....	1,647	1,635	12	694	686	8	636	633	3	317	316	1
Musicians and teachers of music.....	7,012	3,067	3,945	2,944	1,351	1,593	2,972	1,267	1,705	1,096	449	647
Officers of United States army and navy.....	79	79	.....	24	24	.....	44	44	.....	11	11	.....
Officials (government) (a).....	3,677	3,516	161	1,430	1,360	70	1,687	1,626	61	560	530	30
Physicians and surgeons.....	1,731	1,427	304	772	607	165	667	571	96	292	249	43
Professors in colleges and universities.....	717	547	170	546	437	109	121	73	48	50	37	13
Teachers.....	111,919	30,670	81,249	52,231	13,574	38,657	42,839	12,986	29,853	16,849	4,110	12,739
Theatrical managers, showmen, etc.....	2,914	2,826	88	879	852	27	1,682	1,634	48	353	340	13
Veterinary surgeons.....	355	355	.....	136	136	.....	161	161	.....	58	58	.....
Other professional service.....	72	62	10	32	29	3	26	21	5	14	12	2
Domestic and personal service.....	820,081	689,307	130,774	380,354	317,566	62,788	352,678	300,004	52,674	87,049	71,737	15,312
Barbers and hairdressers.....	4,780	4,591	189	2,347	2,269	78	1,755	1,684	71	678	638	40
Bartenders.....	4,968	4,966	2	2,410	2,410	.....	1,815	1,815	.....	743	741	2
Boarding and lodging house keepers.....	649	376	273	247	156	91	269	147	122	133	73	60
Engineers and firemen (not locomotive).....	20,809	20,804	5	10,672	10,667	5	7,848	7,848	.....	2,289	2,289	.....
Hotel keepers.....	1,017	932	85	409	383	26	383	343	40	225	206	19
Housekeepers and stewards (a).....	3,746	641	3,105	1,734	278	1,456	1,408	271	1,137	604	92	512
Hunters, trappers, guides, and scouts.....	606	606	.....	148	148	.....	360	360	.....	98	98	.....
Janitors.....	1,550	1,410	140	903	820	83	448	412	36	199	178	21
Laborers (not specified) (a).....	633,175	620,794	12,381	288,776	282,892	5,884	280,090	274,570	5,520	64,309	63,332	977
Laundresses and laundresses.....	23,430	1,652	21,778	11,578	818	10,760	9,399	603	8,796	2,453	231	2,222
Nurses and midwives.....	8,329	725	7,604	3,136	352	2,784	3,649	250	3,399	1,544	123	1,421
Restaurant keepers.....	671	606	65	300	278	22	253	221	32	118	107	11
Saloon keepers.....	1,591	1,570	21	695	687	8	650	643	7	246	240	6
Servants.....	107,962	23,220	84,742	53,835	12,413	41,422	41,593	8,229	33,364	12,534	2,578	9,956
Sextons.....	452	451	1	190	189	1	197	197	.....	65	65	.....
Soldiers, sailors, and marines (United States) (a).....	682	682	.....	329	329	.....	301	301	.....	52	52	.....
Watchmen, policemen, and detectives.....	4,134	4,127	7	2,048	2,043	5	1,569	1,568	1	517	516	1
Other domestic and personal service.....	1,530	1,154	376	597	434	163	691	542	149	242	178	64
Trade and transportation.....	262,871	247,757	15,114	133,921	126,931	6,990	98,060	92,637	5,423	30,890	28,189	2,701
Agents (claim, commission, real estate, insurance, etc.) and collectors.....	8,554	8,076	478	3,700	3,529	171	3,760	3,535	225	1,094	1,012	82
Auctioneers.....	340	340	.....	100	100	.....	174	174	.....	66	66	.....
Bankers and brokers (money and stocks).....	413	406	7	166	164	2	168	164	4	79	78	1
Boatmen and canalmen.....	6,557	6,548	9	2,174	2,172	2	3,830	3,823	7	553	553	.....
Bookkeepers and accountants (a).....	8,357	6,589	1,768	3,927	3,138	789	3,028	2,369	659	1,402	1,082	320
Brokers (commercial).....	143	143	.....	48	48	.....	65	65	.....	30	30	.....
Clerks and copyists (a).....	28,338	24,639	3,699	13,877	12,176	1,701	10,330	9,020	1,310	4,131	3,443	688
Commercial travelers.....	3,185	3,136	49	1,632	1,616	16	1,197	1,172	25	356	348	8
Draymen, hackmen, teamsters, etc.....	58,671	58,645	26	31,566	31,551	15	21,779	21,772	7	5,326	5,322	4
Foremen and overseers.....	1,950	1,907	43	1,139	1,119	20	585	569	16	226	219	7
Hostlers.....	5,713	5,711	2	2,899	2,897	2	2,148	2,148	.....	666	666	.....
Hucksters and peddlers.....	6,108	5,963	145	2,695	2,643	52	2,693	2,617	76	720	703	17
Livery stable keepers.....	714	713	1	334	334	.....	241	241	.....	139	138	1
Locomotive engineers and firemen (a).....	7,060	7,059	1	4,257	4,256	1	2,000	2,000	.....	803	803	.....
Merchants and dealers in drugs and chemicals (re- tail).....	1,273	1,251	22	552	543	9	460	452	8	261	256	5
Merchants and dealers in dry goods (retail).....	464	443	21	197	187	10	166	162	4	101	94	7
Merchants and dealers in groceries (retail).....	1,618	1,592	26	737	723	14	592	584	8	289	285	4
Merchants and dealers in wines and liquors (retail).....	182	182	.....	100	100	.....	54	54	.....	28	28	.....
Merchants and dealers in wines and liquors (whole- sale).....	63	63	.....	28	28	.....	21	21	.....	14	14	.....

a See explanatory notes in Table 2.

b Unemployed at principal occupation during any portion of census year ending May 31, 1890.

TABLE 12.—TOTAL PERSONS 10 YEARS OF AGE AND OVER IN THE UNITED STATES ENGAGED IN EACH SPECIFIED OCCUPATION, CLASSIFIED BY SEX AND MONTHS UNEMPLOYED: 1890—Continued.

OCCUPATIONS.	PERSONS UNEMPLOYED DURING PORTION OF CENSUS YEAR. (b)											
	Aggregate.			1 to 3 months.			4 to 6 months.			7 to 12 months.		
	Total.	Males.	Fe- males.	Total.	Males.	Fe- males.	Total.	Males.	Fe- males.	Total.	Males.	Fe- males.
Trade and transportation—Continued.												
Merchants and dealers, not specified (retail).....	11,242	10,846	396	5,318	5,114	204	4,443	4,321	122	1,481	1,411	70
Merchants and dealers (wholesale), importers, and shipping merchants.....	1,064	1,059	5	528	526	2	405	402	3	131	131	.....
Messengers and errand and office boys.....	6,313	5,920	393	2,322	2,192	130	2,285	2,146	139	1,706	1,582	124
Newspaper carriers and newsboys.....	372	369	3	152	150	2	133	132	1	87	87	.....
Officials of banks and of insurance, trade, trans- portation, trust, and other companies. (a).....	1,467	1,463	4	674	672	2	602	601	1	191	190	1
Packers and shippers.....	4,690	3,309	1,381	2,577	1,880	697	1,578	1,108	470	535	321	214
Pilots.....	955	955	.....	329	329	.....	478	478	.....	148	148	.....
Porters and helpers (in stores and warehouses).....	1,809	1,775	34	934	916	18	618	612	6	257	247	10
Sailors (a).....	14,645	14,645	.....	5,828	5,828	.....	7,519	7,519	.....	1,298	1,298	.....
Salesmen and saleswomen.....	15,303	11,534	3,769	7,748	5,867	1,881	5,430	4,133	1,297	2,125	1,534	591
Steam railroad employes (not otherwise speci- fied). (a).....	52,836	52,760	126	31,066	31,014	52	17,021	16,971	50	4,799	4,775	24
Stenographers and typewriters.....	2,717	791	1,926	1,200	369	831	1,003	277	726	514	145	369
Street railway employes.....	3,718	3,716	2	2,183	2,181	2	1,128	1,128	.....	407	407	.....
Telegraph and telephone operators.....	3,488	2,918	570	1,630	1,393	237	1,243	1,042	201	615	483	132
Telegraph and telephone linemen and electric light and power company employes.....	1,193	1,101	92	718	659	59	351	328	23	124	114	10
Undertakers.....	282	279	3	124	124	.....	100	98	2	58	57	1
Weights, gaugers, and measurers.....	421	421	.....	181	181	.....	172	172	.....	68	68	.....
Other persons in trade and transportation.....	603	490	113	281	212	69	260	227	33	62	51	11
Manufacturing and mechanical industries.....	1,068,404	900,572	167,832	562,807	469,629	93,178	393,648	339,320	54,328	111,949	91,623	20,326
Agricultural implement makers (not otherwise classified). (a).....	1,103	1,092	11	709	703	6	313	309	4	81	80	1
Apprentices (blacksmiths).....	503	502	1	228	227	1	191	191	.....	84	84	.....
Apprentices (boot and shoe makers).....	195	185	10	83	77	6	69	66	3	43	42	1
Apprentices (carpenters and joiners).....	1,473	1,472	1	651	650	1	632	632	.....	190	190	.....
Apprentices (carriage and wagon makers).....	116	116	.....	65	65	.....	31	31	.....	20	20	.....
Apprentices (dressmakers).....	743	.....	743	244	.....	244	260	.....	260	239	.....	239
Apprentices (leather curriers, etc.).....	62	62	.....	27	27	.....	22	22	.....	13	13	.....
Apprentices (machinists).....	993	992	1	501	500	1	286	286	.....	206	206	.....
Apprentices (masons).....	582	582	.....	286	286	.....	237	237	.....	59	59	.....
Apprentices (milliners).....	257	.....	257	64	.....	64	104	.....	104	89	.....	89
Apprentices (painters).....	454	451	3	167	166	1	195	195	.....	92	90	2
Apprentices (plumbers).....	599	598	1	250	250	.....	223	222	1	126	126	.....
Apprentices (printers).....	496	473	23	197	189	8	193	185	8	106	99	7
Apprentices (tailors).....	302	205	97	140	102	38	99	68	31	63	35	28
Apprentices (tinsmiths).....	283	282	1	136	135	1	94	94	.....	53	53	.....
Apprentices (not otherwise specified).....	4,997	4,759	238	2,302	2,206	96	1,705	1,635	70	990	918	72
Artificial flower makers.....	586	58	528	349	43	306	178	11	167	59	4	55
Bakers.....	4,790	4,671	119	2,517	2,490	27	1,580	1,541	39	693	670	23
Basket makers.....	1,062	870	192	413	358	55	490	378	112	159	134	25
Blacksmiths.....	24,778	24,767	11	13,170	13,163	7	8,592	8,590	2	3,016	3,014	2
Bleachers, dyers, and scourers.....	2,252	1,986	266	1,367	1,200	167	629	555	74	256	231	25
Bone and ivory workers.....	140	125	15	76	68	8	47	43	4	17	14	3
Bookbinders.....	2,712	1,213	1,499	1,489	680	809	804	364	440	419	169	250
Boot and shoe makers and repairers.....	57,713	45,467	12,246	35,944	27,887	8,057	16,447	13,306	3,141	5,322	4,274	1,048
Bottlers and mineral and soda water makers.....	705	601	104	335	280	55	243	213	30	127	108	19
Box makers (paper).....	2,938	704	2,234	1,828	445	1,383	754	180	574	356	79	277
Box makers (wood).....	2,044	1,849	195	1,209	1,089	120	611	558	53	224	202	22
Brass workers (not otherwise specified). (a).....	2,318	2,162	156	1,487	1,381	106	678	546	32	253	235	18
Brewers and maltsters (a).....	1,753	1,741	12	931	925	6	592	590	2	230	226	4
Brick and tile makers and terra cotta workers (a).....	26,260	26,219	41	9,216	9,204	12	15,214	15,187	27	1,830	1,828	2
Britannia workers.....	188	151	37	144	116	28	31	26	5	13	9	4
Broom and brush makers.....	2,076	1,848	228	1,029	898	131	727	666	61	320	284	36
Builders and contractors.....	5,069	5,069	.....	2,664	2,664	.....	1,843	1,843	.....	562	562	.....
Butchers.....	8,062	8,058	4	3,981	3,979	2	3,030	3,030	.....	1,051	1,049	2
Butter and cheese makers.....	3,093	2,996	97	804	779	25	2,026	1,965	61	263	252	11
Button makers.....	461	171	290	265	90	175	143	56	87	53	25	28
Cabinet makers.....	4,965	4,959	6	2,934	2,933	1	1,436	1,432	4	595	594	1
Candle, soap, and tallow makers.....	423	363	60	230	198	32	112	92	20	81	73	8
Carpenters and joiners.....	194,903	194,867	36	98,538	98,521	17	76,917	76,900	17	19,448	19,446	2
Carpet makers (a).....	5,528	2,960	2,568	3,327	1,670	1,657	1,602	955	647	599	335	264
Carriage and wagon makers (not otherwise classi- fied). (a).....	4,322	4,278	44	2,115	2,096	19	1,591	1,576	15	616	606	10
Charcoal, coke, and lime burners.....	2,296	2,293	3	1,561	1,560	1	573	572	1	162	161	1
Chemical works employes (a).....	409	290	119	254	182	72	97	72	25	58	36	22
Clock and watch makers and repairers.....	2,571	2,035	536	1,530	1,196	334	707	566	141	334	273	61
Compositors (a).....	3,373	2,652	721	1,704	1,382	322	1,179	915	264	490	355	135
Confectioners.....	1,825	1,340	485	873	649	224	615	459	156	337	232	105
Coopers.....	12,512	12,504	8	5,917	5,914	3	5,191	5,187	4	1,404	1,403	1
Copper workers.....	454	453	1	230	229	1	134	134	.....	90	90	.....
Corset makers.....	974	68	906	723	48	675	154	11	143	97	8	88
Cotton mill operatives (a).....	23,616	10,566	13,050	15,282	6,650	8,632	5,870	2,598	2,772	2,964	1,318	1,646
Distillers and rectifiers (a).....	512	512	.....	281	281	.....	158	158	.....	73	73	.....
Door, sash, and blind makers (a).....	791	787	4	505	503	2	203	202	1	83	82	1
Dressmakers.....	32,072	109	31,963	15,309	52	15,257	12,333	38	12,295	4,430	19	4,411
Electroplaters.....	385	375	10	232	227	5	98	95	3	55	53	2
Electrotypers and stereotypers (a).....	93	93	.....	44	44	.....	31	31	.....	18	18	.....
Engravers.....	805	781	24	443	420	14	251	243	8	111	109	2
Fertilizer makers (a).....	84	83	1	33	32	1	45	45	.....	6	6	.....
Fish curers and packers (a).....	663	515	148	227	204	23	379	261	118	57	50	7
Gas works employes (a).....	588	588	.....	323	323	.....	195	195	.....	70	70	.....
Glass workers.....	17,963	17,294	669	12,100	11,645	455	3,951	3,785	166	1,912	1,864	48

a See explanatory notes in Table 2.

b Unemployed at principal occupation during any portion of census year ending May 31, 1890.

TABLE 12.—TOTAL PERSONS 10 YEARS OF AGE AND OVER IN THE UNITED STATES ENGAGED IN EACH SPECIFIED OCCUPATION, CLASSIFIED BY SEX AND MONTHS UNEMPLOYED: 1890—Continued.

OCCUPATIONS.	PERSONS UNEMPLOYED DURING PORTION OF CENSUS YEAR. (b)											
	Aggregate.			1 to 3 months.			4 to 6 months.			7 to 12 months.		
	Total.	Males.	Fe-males.	Total.	Males.	Fe-males.	Total.	Males.	Fe-males.	Total.	Males.	Fe-males.
Manufacturing and mechanical industries—Cont'd.												
Glove makers	2,271	1,064	1,207	1,620	822	798	502	193	309	149	49	100
Gold and silver workers	4,082	3,166	916	2,798	2,168	630	950	743	207	334	255	79
Gunsmiths, locksmiths, and bell hangers	1,051	1,046	5	529	527	2	324	323	1	198	196	2
Hair workers	122	74	48	68	48	20	38	20	18	16	6	10
Harness and saddle makers and repairers	4,388	4,265	123	2,175	2,099	76	1,554	1,525	29	659	641	18
Hat and cap makers	7,970	5,739	2,231	4,209	3,062	1,147	3,175	2,243	932	586	434	152
Hosiery and knitting mill operatives (a)	8,975	2,755	6,220	5,506	1,660	3,846	2,457	790	1,667	1,012	305	707
Iron and steel workers (a)	39,104	38,639	465	23,966	23,672	294	11,722	11,603	119	3,416	3,364	52
Lace and embroidery makers	694	140	554	374	81	293	245	42	203	75	17	58
Lead and zinc workers	773	735	38	474	456	18	209	194	15	90	85	5
Leather curriers, dressers, finishers, and tanners	7,996	7,937	59	5,089	5,058	31	2,069	2,053	16	838	826	12
Machinists	19,131	19,121	10	11,745	11,739	6	5,202	5,202	0	2,184	2,180	4
Manufacturers and officials of manufacturing companies	4,221	4,214	7	1,931	1,928	3	1,774	1,771	3	516	515	1
Marble and stone cutters	18,482	18,471	11	9,748	9,741	7	7,169	7,165	4	1,565	1,565	0
Masons (brick and stone)	68,369	68,355	14	27,828	27,824	4	33,472	33,463	9	7,069	7,068	1
Meat and fruit packers, canners, and preservers (a)	1,491	984	507	598	442	156	690	446	244	203	96	107
Mechanics (not otherwise specified)	2,235	2,232	3	1,089	1,089	0	818	816	2	328	327	1
Metal workers (not otherwise specified)	3,394	3,247	147	2,076	1,983	93	1,017	978	39	301	286	15
Mill and factory operatives (not specified) (a)	18,655	10,908	7,747	10,955	6,207	4,748	5,652	3,624	2,028	2,048	1,077	971
Millers (flour and grist)	5,901	5,887	14	3,057	3,052	5	2,102	2,096	6	742	739	3
Milliners	7,780	24	7,756	2,638	13	2,625	3,935	8	3,927	1,207	3	1,204
Model and pattern makers	1,000	990	10	556	549	7	283	282	1	161	159	2
Molders	13,676	13,670	6	8,329	8,326	3	3,977	3,975	2	1,370	1,369	1
Musical instrument makers (not otherwise specified) (a)	65	58	7	33	31	2	21	17	4	11	10	1
Nail and tack makers (a)	1,908	1,795	113	780	710	70	850	853	27	248	232	16
Oil well employes	1,102	1,102	0	693	693	0	336	336	0	73	73	0
Oil works employes	854	840	14	474	470	4	313	309	4	67	67	0
Painters, glaziers, and varnishers	68,405	68,170	235	32,673	32,550	123	29,265	29,180	85	6,467	6,440	27
Paper hangers	3,471	3,452	19	1,554	1,550	4	1,535	1,525	10	382	377	5
Paper mill operatives	4,141	2,735	1,406	2,582	1,698	884	1,075	787	288	484	300	184
Photographers	1,552	1,339	213	659	583	76	617	530	87	276	226	50
Piano and organ makers and tuners (a)	1,552	1,515	37	908	883	25	445	436	9	201	196	5
Plasterers	16,733	16,728	5	6,850	6,849	1	8,268	8,265	3	1,615	1,614	1
Plumbers and gas and steam fitters	7,619	7,615	4	4,257	4,255	2	2,532	2,531	1	830	829	1
Potters	4,769	3,973	796	2,686	2,235	451	1,625	1,381	244	458	357	101
Powder and cartridge makers	192	141	51	118	85	33	48	37	11	26	19	7
Printers, lithographers, and pressmen (a)	8,027	7,431	596	4,129	3,866	263	2,765	2,569	196	1,133	996	137
Print works operatives (a)	967	766	201	602	476	126	248	202	46	117	88	29
Publishers of books, maps, and newspapers	119	116	3	54	52	2	41	41	0	24	23	1
Roofers and slaters	1,839	1,888	1	851	851	0	861	860	1	177	177	0
Rope and cordage makers	1,848	1,084	764	1,062	608	454	572	353	219	214	123	91
Rubber factory operatives	6,328	3,680	2,648	4,711	2,777	1,934	1,240	739	501	368	173	195
Sail, awning, and tent makers	643	608	35	261	244	17	275	255	20	107	99	8
Salt works employes	673	656	17	272	267	5	372	362	10	29	27	2
Saw and planing mill employes (a)	43,233	43,115	118	21,353	21,333	20	18,778	18,692	86	3,102	3,090	12
Seamstresses (a)	19,870	722	19,148	9,792	416	9,376	7,677	256	7,421	2,401	50	2,351
Sewing machine makers (not otherwise classified) (a)	147	140	7	95	90	5	41	40	1	11	10	1
Sewing machine operators (a)	1,242	220	1,022	738	149	589	368	61	307	156	10	126
Ship and boat builders	7,120	7,119	1	3,353	3,352	1	2,890	2,890	0	877	877	0
Shirt, collar, and cuff makers (a)	3,599	750	2,849	1,993	395	1,598	1,131	283	848	475	72	403
Silk mill operatives (a)	8,906	3,885	5,021	5,762	2,478	3,284	2,316	1,054	1,262	828	353	475
Starch makers	138	102	36	89	66	23	83	29	54	11	7	4
Steam boiler makers	3,474	3,472	2	1,866	1,865	1	1,165	1,164	1	443	443	0
Stove, furnace, and grate makers (a)	2,711	2,706	5	1,593	1,591	2	898	897	1	218	218	0
Straw workers	1,769	477	1,292	778	249	529	859	190	669	132	38	94
Sugar makers and refiners	391	890	1	199	199	0	126	125	1	66	66	0
Tailors and tailoresses (a)	28,258	17,700	10,558	15,675	9,636	6,039	9,696	6,308	3,388	2,887	1,756	1,131
Tinners and tinware makers	8,069	7,933	136	4,129	4,055	74	2,923	2,879	44	1,017	999	18
Tobacco and cigar factory operatives	25,584	17,979	7,605	13,985	9,813	4,172	9,351	6,544	2,807	2,248	1,622	626
Tool and cutlery makers (not otherwise classified) (a)	3,656	3,553	103	2,243	2,183	60	1,055	1,024	31	358	346	12
Trunk, valise, leather-case, and pocket-book makers	1,066	918	148	682	584	98	298	233	65	118	101	17
Umbrella and parasol makers	474	220	254	294	139	155	129	56	73	51	25	26
Upholsterers	3,849	3,588	261	2,128	1,991	137	1,255	1,169	86	466	428	38
Well borers	1,309	1,309	0	634	634	0	567	567	0	108	108	0
Wheelwrights	1,646	1,646	0	800	800	0	565	565	0	281	281	0
Whitewashers	1,434	1,431	3	519	519	0	755	752	3	160	160	0
Wire workers	2,096	1,906	190	1,306	1,186	120	558	518	40	232	202	30
Wood workers (not otherwise specified)	12,114	11,362	752	7,418	6,989	429	3,439	3,228	211	1,257	1,145	112
Woolen mill operatives (a)	19,699	10,496	9,203	12,521	6,605	5,916	5,100	2,786	2,314	2,078	1,105	973
Other persons in manufacturing and mechanical industries	17,647	14,801	2,846	9,312	7,773	1,539	6,488	5,584	904	1,847	1,444	403

a See explanatory notes in Table 2.

b Unemployed at principal occupation during any portion of census year ending May 31, 1890.

TABLE 13.—TOTAL ILLITERATE PERSONS 10 YEARS OF AGE AND OVER ENGAGED IN GAINFUL

STATES AND TERRITORIES.	ALL OCCUPATIONS.			AGRICULTURE, FISHERIES, AND MINING.			PROFESSIONAL SERVICE.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
The United States	3, 441, 071	2, 588, 765	852, 306	2, 092, 395	1, 706, 463	385, 932	4, 133	3, 863	270
North Atlantic division	451, 151	370, 158	80, 993	105, 617	103, 938	1, 679	808	756	52
Maine	16, 693	13, 748	2, 945	4, 792	4, 729	63	22	20	2
New Hampshire	13, 823	10, 614	3, 209	1, 729	1, 721	8	13	12	1
Vermont	9, 934	9, 087	847	4, 294	4, 250	44	6	6	.....
Massachusetts	56, 905	42, 425	14, 480	5, 689	5, 657	32	101	92	9
Rhode Island	15, 160	11, 132	4, 028	1, 186	1, 170	16	16	14	2
Connecticut	17, 532	13, 791	3, 741	2, 830	2, 797	33	18	15	3
New York	146, 632	119, 701	26, 931	35, 601	34, 929	672	405	382	23
New Jersey	38, 417	31, 102	7, 315	6, 767	6, 614	153	47	45	2
Pennsylvania	136, 055	118, 558	17, 497	42, 729	42, 071	658	183	170	10
South Atlantic division	1, 137, 735	798, 658	339, 077	750, 644	593, 846	156, 798	798	744	54
Delaware	10, 084	8, 179	1, 905	4, 275	4, 216	59	8	7	1
Maryland	72, 752	52, 128	20, 624	28, 912	28, 012	900	85	73	12
District of Columbia	17, 165	8, 769	8, 396	439	421	18	18	13	5
Virginia	201, 470	149, 554	51, 916	108, 939	99, 857	9, 082	237	223	14
West Virginia	34, 069	29, 912	4, 157	22, 871	21, 828	1, 043	16	15	1
North Carolina	220, 800	155, 779	65, 111	162, 207	127, 521	34, 686	131	121	10
South Carolina	234, 350	147, 224	87, 126	190, 734	125, 606	65, 128	71	69	2
Georgia	301, 214	215, 764	85, 450	206, 169	167, 044	39, 125	177	173	4
Florida	45, 741	31, 349	14, 392	26, 088	19, 341	6, 757	55	50	5
North Central division	442, 325	385, 533	56, 792	234, 516	221, 086	12, 830	829	773	56
Ohio	67, 483	58, 836	8, 647	28, 186	26, 727	1, 459	129	121	8
Indiana	46, 990	41, 238	5, 752	26, 315	24, 821	1, 494	81	74	7
Illinois	69, 621	60, 210	9, 411	32, 559	30, 437	2, 122	175	165	10
Michigan	48, 521	44, 753	3, 768	22, 001	21, 322	679	90	84	6
Wisconsin	36, 524	32, 927	3, 597	20, 637	19, 549	1, 088	44	41	3
Minnesota	25, 446	22, 156	3, 290	14, 711	13, 853	852	36	31	5
Iowa	22, 502	19, 794	2, 708	14, 630	13, 550	1, 040	36	33	3
Missouri	80, 240	71, 771	14, 469	51, 123	48, 400	2, 723	142	133	9
North Dakota	3, 530	3, 064	466	2, 667	2, 551	116	5	5	.....
South Dakota	4, 484	3, 983	501	3, 261	3, 102	159	4	2	2
Nebraska	11, 422	9, 970	1, 452	6, 741	6, 425	316	47	45	2
Kansas	19, 562	16, 831	2, 731	11, 685	10, 903	782	40	39	1
South Central division	1, 295, 994	929, 676	366, 318	954, 702	741, 147	213, 555	1, 185	1, 111	74
Kentucky	145, 274	117, 587	27, 687	92, 232	87, 953	4, 282	262	253	9
Tennessee	170, 849	132, 675	38, 174	113, 029	100, 246	12, 783	208	196	12
Alabama	260, 622	169, 878	90, 744	199, 994	138, 052	61, 942	141	129	12
Mississippi	227, 953	143, 305	84, 648	188, 785	124, 532	64, 253	147	138	9
Louisiana	211, 475	147, 762	63, 713	151, 584	114, 546	37, 038	116	108	8
Texas	162, 513	126, 339	36, 174	110, 597	94, 100	16, 497	203	186	17
Oklahoma	918	848	70	738	711	27	1	1	.....
Arkansas	116, 390	91, 282	25, 108	97, 743	81, 010	16, 733	107	100	7
Western division	113, 866	104, 740	9, 126	46, 916	45, 846	1, 070	513	479	34
Montana	4, 092	3, 871	221	1, 335	1, 317	18	11	11	.....
Wyoming	990	939	51	383	379	4	9	9	.....
Colorado	9, 739	8, 901	838	3, 353	3, 269	84	80	27	3
New Mexico	20, 475	18, 475	2, 000	11, 555	11, 246	309	78	66	12
Arizona	5, 779	5, 142	637	2, 071	2, 045	26	25	24	1
Utah	3, 307	2, 892	415	1, 352	1, 281	68	11	10	1
Nevada	2, 716	2, 296	420	1, 141	1, 084	57	29	29	.....
Idaho	2, 030	1, 935	95	1, 036	1, 008	28	1	1	.....
Washington	7, 176	6, 705	471	2, 396	2, 297	99	18	15	1
Oregon	6, 164	5, 749	415	2, 685	2, 616	69	16	14	2
California	51, 398	47, 835	3, 563	19, 609	19, 301	308	287	273	14

OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY SEX, BY STATES AND TERRITORIES: 1890.

STATES AND TERRITORIES.	DOMESTIC AND PERSONAL SERVICE.			TRADE AND TRANSPORTATION.			MANUFACTURING AND MECHANICAL INDUSTRIES.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
The United States	921, 627	508, 859	412, 768	146, 899	142, 944	3, 955	276, 017	226, 636	49, 381
North Atlantic division	186, 513	134, 414	52, 099	38, 081	36, 529	1, 552	120, 132	94, 521	25, 611
Maine	5, 261	4, 202	1, 059	804	798	6	5, 814	3, 999	1, 815
New Hampshire	3, 170	2, 605	565	815	810	5	8, 096	5, 466	2, 630
Vermont	2, 943	2, 335	608	673	671	2	2, 018	1, 825	193
Massachusetts	21, 501	14, 630	6, 871	4, 273	4, 050	223	25, 341	17, 996	7, 345
Rhode Island	4, 841	3, 509	1, 332	988	954	34	8, 129	5, 485	2, 644
Connecticut	6, 852	4, 806	2, 046	1, 273	1, 241	32	6, 559	4, 932	1, 627
New York	60, 101	40, 853	19, 248	14, 590	13, 874	716	35, 935	29, 663	6, 272
New Jersey	19, 436	13, 471	6, 015	3, 858	3, 700	158	8, 259	7, 272	987
Pennsylvania	62, 358	48, 003	14, 355	10, 807	10, 431	376	19, 981	17, 883	2, 098
South Atlantic division	283, 364	115, 806	167, 558	39, 926	38, 880	1, 046	63, 003	49, 382	13, 621
Delaware	4, 406	2, 618	1, 788	521	500	21	874	838	36
Maryland	32, 911	14, 545	18, 366	4, 835	4, 571	264	6, 009	4, 927	1, 082
District of Columbia	13, 447	5, 357	8, 090	1, 682	1, 591	91	1, 579	1, 387	192
Virginia	66, 205	27, 114	39, 091	10, 034	9, 865	169	16, 055	12, 495	3, 560
West Virginia	7, 304	4, 305	2, 999	2, 298	2, 290	8	1, 580	1, 474	106
North Carolina	41, 623	14, 897	26, 731	4, 577	4, 499	78	12, 347	8, 741	3, 606
South Carolina	31, 821	11, 860	19, 961	3, 851	3, 718	133	7, 873	5, 971	1, 902
Georgia	70, 722	27, 403	43, 319	10, 123	9, 857	266	14, 023	11, 287	2, 736
Florida	14, 920	7, 707	7, 213	2, 005	1, 989	16	2, 663	2, 262	401
North Central division	137, 754	98, 084	39, 670	25, 844	25, 269	575	43, 882	39, 721	3, 661
Ohio	26, 344	20, 025	6, 319	4, 531	4, 384	147	8, 293	7, 579	714
Indiana	14, 513	10, 698	3, 815	2, 439	2, 409	30	3, 642	3, 236	406
Illinois	23, 181	17, 025	6, 156	5, 084	4, 896	188	8, 622	7, 687	935
Michigan	16, 130	13, 504	2, 626	3, 010	2, 965	45	7, 290	6, 878	412
Wisconsin	9, 900	7, 726	2, 174	1, 528	1, 498	30	4, 415	4, 113	302
Minnesota	7, 053	4, 762	2, 291	1, 150	1, 133	17	2, 496	2, 371	125
Iowa	5, 033	3, 505	1, 528	1, 408	1, 386	22	1, 305	1, 280	115
Missouri	25, 169	14, 002	11, 167	4, 578	4, 502	76	5, 228	4, 734	494
North Dakota	651	315	336	120	120	-----	87	73	14
South Dakota	761	430	331	312	308	4	146	141	5
Nebraska	3, 200	2, 125	1, 075	725	718	7	709	657	52
Kansas	5, 819	3, 967	1, 852	950	950	9	1, 059	972	87
South Central division	264, 278	117, 972	146, 306	34, 684	34, 009	675	41, 145	35, 437	5, 708
Kentucky	40, 670	18, 166	22, 504	5, 561	5, 496	65	6, 549	5, 722	827
Tennessee	41, 863	17, 778	24, 090	7, 036	6, 959	77	8, 708	7, 496	1, 212
Alabama	45, 525	18, 171	27, 354	6, 461	6, 340	121	8, 501	7, 186	1, 315
Mississippi	31, 412	11, 572	19, 840	3, 451	3, 383	68	4, 158	3, 680	478
Louisiana	49, 357	24, 012	25, 345	4, 794	4, 565	229	5, 624	4, 531	1, 093
Texas	40, 519	21, 542	18, 977	5, 825	5, 727	98	5, 369	4, 784	585
Oklahoma	137	95	42	12	12	-----	30	20	1
Arkansas	14, 790	6, 636	8, 154	1, 544	1, 527	17	2, 206	2, 009	197
Western division	49, 718	42, 583	7, 135	8, 364	8, 257	107	8, 355	7, 575	780
Montana	1, 966	1, 773	193	419	419	-----	561	351	10
Wyoming	366	321	45	192	192	-----	40	38	2
Colorado	4, 687	3, 981	706	927	917	10	742	707	35
New Mexico	7, 670	6, 165	1, 505	563	555	8	609	443	166
Arizona	2, 897	2, 383	514	488	486	2	298	204	94
Utah	1, 349	1, 047	302	212	208	4	383	343	40
Nevada	1, 239	891	348	170	168	2	137	124	13
Idaho	752	689	63	172	171	1	69	66	3
Washington	3, 275	2, 938	337	705	696	9	784	759	25
Oregon	2, 287	1, 986	301	471	465	6	705	668	37
California	23, 230	20, 409	2, 821	4, 045	3, 980	65	4, 227	3, 872	355

TABLE 14.—TOTAL ILLITERATE PERSONS 10 YEARS OF AGE AND OVER IN THE UNITED STATES ENGAGED

	OCCUPATIONS.	AGGREGATE.			WHITE.			NATIVE WHITE.		
		Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
1	All occupations	3, 441, 071	2, 588, 765	852, 306	1, 496, 835	1, 278, 077	218, 758	919, 004	788, 468	130, 536
2	Agriculture, fisheries, and mining	2, 092, 395	1, 706, 463	385, 932	841, 720	774, 800	66, 920	672, 319	612, 627	59, 692
3	Agricultural laborers (a)	1, 066, 762	763, 687	303, 075	290, 289	261, 286	29, 003	255, 781	227, 616	28, 165
4	Apriarists	26	26	25	25	25	—	18	18	—
5	Dairymen and dairywomen	1, 477	1, 215	262	1, 066	940	126	219	165	54
6	Farmers, planters, and overseers (a)	895, 402	814, 069	81, 333	462, 654	425, 336	37, 318	380, 907	349, 708	31, 199
7	Fishermen and oystermen (a)	14, 938	14, 747	191	8, 182	8, 149	33	5, 649	5, 020	20
8	Gardeners, florists, nurserymen, and vine growers	8, 032	7, 551	481	3, 424	3, 213	211	972	866	106
9	Lumbermen and raftsmen	7, 923	7, 915	8	5, 514	5, 510	4	2, 617	2, 615	2
10	Miners (coal)	40, 319	40, 284	35	36, 080	36, 049	31	11, 400	11, 391	9
11	Miners (not otherwise specified)	19, 989	19, 915	74	13, 551	13, 536	15	4, 571	4, 564	7
12	Quarrymen	7, 057	7, 052	5	5, 310	5, 306	4	1, 299	1, 298	1
13	Stock raisers, herders, and drovers	10, 536	10, 397	139	9, 015	8, 903	112	4, 634	4, 553	81
14	Wood choppers	11, 363	11, 347	16	5, 345	5, 344	1	3, 171	3, 170	1
15	Other agricultural pursuits (a)	8, 571	8, 258	313	1, 265	1, 203	62	1, 081	1, 043	38
16	Professional service	4, 133	3, 863	270	2, 165	1, 998	167	986	898	88
17	Actors	147	104	43	40	16	24	9	4	5
18	Architects	—	—	—	—	—	—	—	—	—
19	Artists and teachers of art	94	74	20	78	64	14	25	19	6
20	Authors and literary and scientific persons	—	—	—	—	—	—	—	—	—
21	Chemists, assayers, and metallurgists	—	—	—	—	—	—	—	—	—
22	Clergymen	884	873	11	158	155	3	103	101	2
23	Dentists	—	—	—	—	—	—	—	—	—
24	Designers, draftsmen, and inventors	—	—	—	—	—	—	—	—	—
25	Engineers (civil, mechanical, electrical, and mining) and surveyors	—	—	—	—	—	—	—	—	—
26	Journalists	—	—	—	—	—	—	—	—	—
27	Lawyers	—	—	—	—	—	—	—	—	—
28	Musicians and teachers of music	994	917	77	839	772	67	258	227	31
29	Officers of United States army and navy	—	—	—	—	—	—	—	—	—
30	Officials (government) (a)	677	647	30	469	449	20	253	236	17
31	Physicians and surgeons	367	295	72	133	105	28	98	77	21
32	Professors in colleges and universities	—	—	—	—	—	—	—	—	—
33	Teachers	—	—	—	—	—	—	—	—	—
34	Theatrical managers, showmen, etc.	889	872	17	386	375	11	205	199	6
35	Veterinary surgeons	81	81	—	62	62	—	35	35	—
36	Other professional service	—	—	—	—	—	—	—	—	—
37	Domestic and personal service	921, 627	508, 859	412, 768	371, 893	264, 207	107, 686	151, 574	97, 646	53, 928
38	Barbers and hairdressers	4, 298	4, 182	116	1, 992	1, 938	54	309	288	21
39	Bartenders	1, 139	1, 132	7	782	776	6	197	193	4
40	Boarding and lodging house keepers	3, 304	706	2, 598	1, 937	377	1, 560	569	110	459
41	Engineers and firemen (not locomotive)	6, 598	6, 596	2	3, 819	3, 817	2	1, 900	1, 899	1
42	Hotel keepers	851	581	270	641	434	177	269	190	79
43	Housekeepers and stewards (a)	13, 613	390	13, 223	7, 897	130	7, 767	4, 945	66	4, 879
44	Hunters, trappers, guides, and scouts	858	840	18	246	246	—	201	201	—
45	Janitors	1, 766	1, 438	328	645	446	199	164	120	44
46	Laborers (not specified) (a)	462, 724	428, 215	34, 509	245, 698	241, 759	3, 939	92, 211	89, 486	2, 725
47	Laundresses and laundresses	119, 542	9, 715	109, 827	15, 224	692	14, 532	6, 607	102	6, 445
48	Nurses and midwives	3, 629	35	3, 594	845	14	831	564	—	664
49	Restaurant keepers	1, 222	801	421	389	298	91	91	59	32
50	Saloon keepers	2, 083	1, 826	257	1, 854	1, 631	223	286	264	22
51	Servants	293, 176	45, 885	247, 291	85, 412	7, 305	78, 107	41, 966	3, 485	38, 481
52	Sextons	548	539	9	227	224	3	80	79	1
53	Soldiers, sailors, and marines (United States) (a)	595	595	—	229	229	—	60	60	—
54	Watchmen, policemen, and detectives	3, 094	3, 076	18	2, 393	2, 377	16	837	827	10
55	Other domestic and personal service	2, 587	2, 307	280	1, 663	1, 484	179	218	157	61
56	Trade and transportation	146, 899	142, 944	3, 955	80, 300	77, 398	2, 902	28, 619	28, 158	461
57	Agents (claim, commission, real estate, insurance, etc.) and collectors	570	538	32	372	349	23	179	169	10
58	Auctioneers	—	—	—	—	—	—	—	—	—
59	Bankers and brokers (money and stocks)	152	137	15	117	102	15	43	40	3
60	Boatmen and canalmen	1, 977	1, 976	1	1, 016	1, 015	1	711	710	1
61	Bookkeepers and accountants (a)	—	—	—	—	—	—	—	—	—
62	Brokers (commercial)	28	28	—	19	19	—	8	8	—
63	Clerks and copyists (a)	2, 735	2, 543	192	1, 772	1, 642	130	925	868	57
64	Commercial travelers	82	78	4	66	65	1	32	31	1
65	Draymen, hackmen, teamsters, etc.	38, 931	38, 899	32	19, 168	19, 156	12	11, 390	11, 384	6
66	Foremen and overseers	955	974	11	772	767	5	282	282	—
67	Hostlers	7, 388	7, 384	4	2, 643	2, 643	—	1, 182	1, 182	—
68	Hucksters and peddlers	11, 338	10, 377	961	9, 795	9, 199	596	1, 174	1, 119	55
69	Livery stable keepers	564	564	—	399	399	—	220	220	—
70	Locomotive engineers and firemen (a)	1, 111	1, 111	—	499	499	—	282	282	—
71	Merchants and dealers in drugs and chemicals (retail)	71	71	—	46	46	—	28	28	—
72	Merchants and dealers in dry goods (retail)	204	288	6	249	243	6	62	62	—
73	Merchants and dealers in groceries (retail)	2, 175	1, 649	526	1, 734	1, 269	465	282	239	43
74	Merchants and dealers in wines and liquors (retail)	132	131	1	122	121	1	20	20	—
75	Merchants and dealers in wines and liquors (wholesale)	20	20	—	18	18	—	4	4	—

a See explanatory notes in Table 2.

IN EACH SPECIFIED OCCUPATION, CLASSIFIED BY SEX, GENERAL NATIVITY, AND COLOR: 1890.

NATIVE WHITE—NATIVE PARENTS.			NATIVE WHITE—FOREIGN PARENTS.			FOREIGN WHITE.			COLORED. (b)			PERSONS OF NEGRO DESCENT.			
Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	
838,403	719,824	118,579	80,601	68,644	11,957	577,831	489,609	88,222	1,944,236	1,310,688	633,548	1,895,432	1,264,462	630,970	1
635,689	577,313	58,376	36,630	35,314	1,316	199,401	162,173	7,228	1,250,675	931,663	319,012	1,233,783	915,452	318,331	2
242,766	214,987	27,779	13,015	12,629	386	34,508	33,670	838	776,473	502,401	274,072	770,425	496,664	273,761	3
10	16		2	2		7	7		1	1		1	1		4
104	110	48	55	49	6	847	775	72	411	275	136	397	261	136	5
364,212	333,907	30,305	16,695	15,801	894	81,747	75,628	6,119	432,748	388,733	44,015	428,480	384,685	43,795	6
5,206	5,177	29	443	443		2,533	2,529	4	6,756	6,598	158	6,003	5,897	106	7
786	682	104	186	184	2	2,452	2,347	105	4,608	4,338	270	3,709	3,465	244	8
2,218	2,216	2	399	399		2,897	2,895	2	2,409	2,405	4	2,119	2,115	4	9
8,105	8,102	3	3,295	3,289	6	24,680	24,658	22	4,239	4,235	4	4,202	4,198	4	10
3,794	3,790	4	777	774	3	8,980	8,972	8	6,438	6,379	59	3,566	3,565	1	11
999	998	1	300	300		4,011	4,008	3	1,747	1,746	1	1,704	1,703	1	12
3,534	3,470	64	1,100	1,083	17	4,381	4,350	31	1,521	1,494	27	759	743	16	13
2,860	2,859	1	311	311		2,174	2,174		6,018	6,003	15	5,150	5,137	13	14
1,029	993	36	52	50	2	184	160	24	7,306	7,055	251	7,268	7,018	250	15
836	758	78	150	140	10	1,179	1,100	79	1,968	1,865	103	1,640	1,559	81	16
6	3	3	3	1	2	31	12	19	107	88	19	17	8	9	17
20	14	6	5	5		53	45	8	16	10	6	16	10	6	18
96	94	2	7	7		55	54	1	720	718	8	721	713	8	19
															20
															21
															22
															23
															24
															25
															26
200	173	27	58	54	4	581	545	36	155	145	10	148	140	8	27
225	212	13	28	24	4	216	213	3	208	198	10	200	190	10	28
80	68	21	9	9		35	28	7	234	190	44	115	78	37	29
															30
															31
172	166	6	33	33		181	176	5	503	497	6	404	401	3	32
28	28		7	7		27	27		19	19		19	19		33
															34
															35
															36
128,556	81,455	47,101	23,018	16,191	6,827	220,319	166,561	53,758	549,734	244,652	305,082	524,594	221,003	303,591	37
208	195	13	101	93	8	1,083	1,650	83	2,306	2,244	62	2,068	2,007	61	38
118	115	3	79	78	1	585	583	2	357	356	1	352	351	1	39
402	87	375	107	23	84	1,368	267	1,101	1,367	329	1,038	1,255	223	1,032	40
1,545	1,544	1	355	355		1,919	1,918	1	2,779	2,779		2,768	2,768		41
223	153	70	40	37	9	372	274	98	210	117	93	194	101	93	42
4,578	56	4,522	387	10	357	2,952	64	2,888	5,716	260	5,456	5,630	251	5,379	43
173	173		28	28		45	45		612	594	18	53	53		44
121	92	29	43	28	15	481	326	155	1,121	892	129	1,112	883	129	45
77,449	74,895	2,554	14,762	14,591	171	153,487	152,273	1,214	217,026	186,456	30,570	207,996	177,646	30,350	46
5,673	132	5,541	934	30	904	8,617	530	8,087	104,318	9,023	95,295	95,970	1,127	94,843	47
662		662	2		2	181	14	167	2,784	21	2,763	2,784	21	2,763	48
67	44	23	24	15	9	298	239	59	833	508	320	711	384	327	49
179	167	12	107	97	10	1,568	1,367	201	229	195	34	206	173	33	50
36,151	2,917	33,234	5,815	568	5,247	43,446	3,820	39,626	207,764	38,580	169,184	201,284	32,754	168,480	51
64	63	1	16	16		147	145	2	221	315	6	319	313	6	52
44	44		16	16		169	169		266	366		358	358		53
695	685	10	142	142		1,550	1,550	6	701	699	2	691	689	2	54
144	93	51	74	64	10	1,445	1,327	118	924	823	101	893	801	92	55
22,652	22,551	301	5,767	5,607	160	51,681	49,240	2,441	66,599	65,546	1,053	63,367	62,349	1,018	56
151	141	10	28	28		193	180	13	198	189	9	183	175	8	57
39	37	2	4	3	1	74	62	12	35	35		9	9		58
570	569	1	141	141		305	305		961	961		940	940		59
															60
															61
7	7		1	1		11	11		9	9		9	9		62
764	727	37	161	141	20	847	774	73	963	901	62	648	591	57	63
23	23		9	8	1	74	34		16	13	3	14	11	3	64
9,064	9,059	5	2,326	2,325	1	7,778	7,772	6	19,763	19,743	20	19,665	19,645	20	65
225	225		57	57		490	485	5	213	207	6	199	193	6	66
929	929		253	253		1,461	1,461		4,745	4,741	4	4,735	4,731	4	67
823	788	40	346	331	15	8,621	8,080	541	1,543	1,178	365	1,198	840	358	68
185	185		35	35		179	179		165	165		165	165		69
225	225		57	57		217	217		612	612		609	609		70
18	18		10	10		18	18		25	25		15	15		71
57	57		5	5		187	181	6	45	45		32	32		72
228	199	29	54	40	14	1,452	1,030	422	441	380	61	322	262	60	73
14	14		6	6		102	101	1	10	10		10	10		74
4	4					14	14		2	2		2	2		75

b Persons of negro descent, Chinese, Japanese, and civilized Indians.

TABLE 14.—TOTAL ILLITERATE PERSONS 10 YEARS OF AGE AND OVER IN THE UNITED STATES ENGAGED

OCCUPATIONS.	AGGREGATE.			WHITE.			NATIVE WHITE.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
Trade and transportation—Continued.									
76 Merchants and dealers, not specified (retail).....	9,746	8,585	1,161	7,788	6,872	916	1,576	1,455	121
77 Merchants and dealers (wholesale), importers, and shipping merchants.....	471	471	—	220	220	—	122	122	—
78 Messengers and errand and office boys.....	1,731	1,077	54	548	523	25	363	351	12
79 Newspaper carriers and newsboys.....	195	188	7	125	121	4	61	61	—
80 Officials of banks and of insurance, trade, transportation, trust, and other companies. (a)	348	346	2	249	247	2	112	111	1
81 Packers and shippers.....	776	834	142	577	455	122	211	160	51
82 Pilots.....	124	124	—	82	82	—	62	62	—
83 Porters and helpers (in stores and warehouses)...	3,129	3,192	27	383	365	18	109	103	6
84 Sailors (a).....	4,543	4,543	—	2,413	2,413	—	1,089	1,089	—
85 Salesmen and saleswomen.....	1,062	861	201	834	674	160	254	217	37
86 Steam railroad employes (not otherwise specified). (a)	53,789	53,568	221	26,620	26,525	95	7,448	7,411	37
87 Stenographers and typewriters.....	—	—	—	—	—	—	—	—	—
88 Street railway employes.....	1,137	1,137	—	796	796	—	276	276	—
89 Telegraph and telephone operators.....	—	—	—	—	—	—	—	—	—
90 Telegraph and telephonelinemen and electric light and power company employes.....	225	221	4	119	115	4	45	44	1
91 Undertakers.....	73	70	3	50	34	2	24	22	2
92 Weighers, gangers, and measurers.....	—	—	—	—	—	—	—	—	—
93 Other persons in trade and transportation.....	907	559	348	703	404	299	42	26	17
94 Manufacturing and mechanical industries.....	276,017	226,636	49,381	200,757	159,674	41,083	65,506	49,139	16,367
95 Agricultural implement makers (not otherwise classified). (a)	241	241	—	187	187	—	41	41	—
96 Apprentices (blacksmiths).....	157	157	—	97	97	—	62	62	—
97 Apprentices (boot and shoe makers).....	48	48	—	43	43	—	5	5	—
98 Apprentices (carpenters and joiners).....	143	143	—	94	94	—	48	48	—
99 Apprentices (carriage and wagon makers).....	10	10	—	8	8	—	3	3	—
100 Apprentices (dressmakers).....	35	—	35	32	—	32	11	—	11
101 Apprentices (leather curriers, etc.).....	1	1	—	1	1	—	1	1	—
102 Apprentices (machinists).....	45	45	—	44	44	—	27	27	—
103 Apprentices (masons).....	55	55	—	30	30	—	18	18	—
104 Apprentices (milliners).....	11	—	11	11	—	11	9	—	9
105 Apprentices (painters).....	35	35	—	27	27	—	20	20	—
106 Apprentices (plumbers).....	24	24	—	17	17	—	11	11	—
107 Apprentices (printers).....	19	12	7	14	9	5	7	5	2
108 Apprentices (tailors).....	169	79	30	106	76	30	7	6	1
109 Apprentices (tinsmiths).....	33	33	—	30	30	—	22	22	—
110 Apprentices (not otherwise specified).....	616	593	23	463	443	20	237	229	8
111 Artificial flower makers.....	151	42	109	151	42	109	10	1	9
112 Bakers.....	2,489	2,372	117	2,135	2,061	74	194	174	20
113 Basket makers.....	988	745	243	502	442	60	360	307	53
114 Blacksmiths.....	12,392	12,387	5	6,640	6,637	3	3,150	3,149	1
115 Bleachers, dyers, and scourers.....	882	831	51	803	772	31	148	138	10
116 Bone and ivory workers.....	49	47	2	47	45	2	5	5	—
117 Bookbinders.....	134	95	39	132	94	38	40	15	25
118 Boot and shoe makers and repairers.....	10,294	10,012	282	8,170	7,902	268	1,616	1,526	90
119 Bottlers and mineral and soda water makers.....	207	199	8	186	178	8	41	40	1
120 Box makers (paper).....	235	134	101	235	134	101	56	22	34
121 Box makers (wood).....	412	390	13	322	310	12	134	126	8
122 Brass workers (not otherwise specified) (a).....	387	378	9	378	369	9	62	59	3
123 Brewers and maltsters (a).....	1,283	1,281	2	1,193	1,191	2	70	70	—
124 Brick and tile makers and terra cotta workers (a).....	12,904	12,874	30	7,830	7,817	13	1,530	1,527	3
125 Britannia workers.....	10	8	2	0	7	2	—	—	—
126 Broom and brush makers.....	603	577	26	543	519	24	302	293	9
127 Builders and contractors.....	529	528	1	584	583	1	190	190	—
128 Butchers.....	3,435	3,422	13	2,313	2,302	11	723	721	2
129 Butter and cheese makers.....	149	138	11	125	117	8	31	29	2
130 Button makers.....	58	30	28	58	30	28	7	4	3
131 Cabinet makers.....	1,025	1,025	—	925	925	—	141	141	—
132 Candle, soap, and tallow makers.....	145	139	6	130	125	5	30	28	2
133 Carpenters and joiners.....	23,595	23,592	3	13,760	13,758	2	6,106	6,105	1
134 Carpet makers (a).....	1,030	442	588	1,000	437	563	372	96	276
135 Carriage and wagon makers (not otherwise classified). (a)	742	738	4	566	502	4	296	292	4
136 Charcoal, coke, and lime burners.....	2,485	2,482	3	1,555	1,554	1	529	528	1
137 Chemical works employes (a).....	222	208	14	194	181	13	37	31	6
138 Clock and watch makers and repairers.....	340	308	32	323	291	32	50	41	9
139 Compositors (a).....	—	—	—	—	—	—	—	—	—
140 Confectioners.....	985	647	338	860	553	307	102	70	32
141 Coopers.....	3,358	3,354	4	2,207	2,203	4	1,343	1,342	1
142 Copper workers.....	159	159	—	149	149	—	17	17	—
143 Corset makers.....	60	11	49	60	11	49	14	2	12
144 Cotton mill operatives (a).....	32,282	16,306	15,976	31,755	15,937	15,818	12,290	5,736	6,554
145 Distillers and rectifiers (a).....	489	487	2	191	189	2	127	127	—
146 Door, sash and blind makers (a).....	101	101	—	89	89	—	29	29	—
147 Dressmakers.....	3,305	93	3,212	2,592	92	2,500	828	2	826
148 Electroplaters.....	23	23	—	23	23	—	9	9	—
149 Electrotypers and stereotypers (a).....	7	7	—	7	7	—	2	2	—
150 Engravers.....	—	—	—	—	—	—	—	—	—
151 Fertilizer makers (a).....	189	188	1	39	39	—	5	5	—
152 Fish curers and packers (a).....	114	104	10	45	35	10	16	15	1
153 Gas works employes (a).....	503	503	—	381	361	—	65	65	—
154 Glass workers.....	1,695	1,663	32	1,621	1,591	30	980	960	20

a See explanatory notes in Table 2.

IN EACH SPECIFIED OCCUPATION, CLASSIFIED BY SEX, GENERAL NATIVITY, AND COLOR: 1890—Continued.

NATIVE WHITE—NATIVE PARENTS.			NATIVE WHITE—FOREIGN PARENTS.			FOREIGN WHITE.			COLORED. (b)			PERSONS OF NEGRO DESCENT.			
Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	
1,193	1,109	84	383	346	37	6,212	5,417	795	1,958	1,713	245	1,176	949	227	76
103	103		19	19		98	98		251	251		246	246		77
247	238	9	116	113	3	185	172	13	1,183	1,154	29	1,179	1,151	28	78
34	34		27	27		64	60	4	70	67	3	70	67	3	79
91	90	1	21	21		137	130	7	99	99		92	92		80
139	117	22	72	43	29	366	295	71	199	179	20	165	146	20	81
52	52		10	10		20	20		42	42		39	39		82
85	81	4	24	22	2	274	262	12	2,836	2,827	9	2,820	2,811	9	83
917	917		172	172		1,324	1,324		2,130	2,130		2,107	2,107		84
162	142	20	92	75	17	580	457	123	228	187	41	201	160	41	85
6,253	6,223	30	1,195	1,188	7	19,172	19,114	58	27,169	27,043	126	25,836	25,712	124	86
178	178		98	98		520	520		341	341		340	340		87
26	26		19	18	1	74	71	3	106	106		106	106		88
19	18	1	5	4	1	12	12		37	36	1	87	36	1	89
22	16	6	21	10	11	660	378	282	204	155	49	197	148	49	90
50,470	37,747	12,723	15,036	11,392	3,644	135,251	110,535	24,716	75,260	66,962	8,298	72,048	64,099	7,949	91
21	31		10	10		146	146		54	54		54	54		92
44	44		18	18		35	35		60	60		60	60		93
2	2		3	3		38	38		5	5		5	5		94
37	37		11	11		49	46	3	49	49		49	49		95
2	2		1	1		5	5		2	2		2	2		96
1		1	10		10	21		21	3		3	3		3	97
1	1		10	10		17	17		1	1		1	1		98
17	17		7	7		12	12		25	25		25	25		99
11	11		9			2									100
9															101
13	13		7	7		7	7		8	8		8	8		102
5	5		6	6		6	6		7	7		7	7		103
5	4	1	2	2		7	3	4	5	3	2	5	3	2	104
2	2		5	8	2	99	71	28	3	3		3	3		105
13	13		9	9		8	8		3	3		3	3		106
138	132	6	99	97	2	226	214	12	153	150	3	152	149	3	107
2	2		8	1	7	141	41	100							108
91	78	13	103	96	7	1,941	1,887	54	354	311	43	331	288	43	109
315	266	49	45	41	4	142	135	7	486	303	183	250	240	10	110
2,748	2,747	1	402	402		3,490	3,488	2	5,752	5,750	2	5,737	5,735	2	111
76	72	4	72	66	6	655	634	21	79	59	20	79	59	20	112
2	2		3	3		42	40	2	2	2		2	2		113
15	6	9	25	9	16	92	70	22	2	1	1	2	1	1	114
1,169	1,142	27	447	384	63	6,554	6,376	178	2,124	2,110	14	1,881	1,868	13	115
19	19		22	21	1	145	138	7	21	21		21	21		116
26	11	15	30	11	19	179	112	67							117
72	69	3	62	57	5	188	184	4	90	89	1	84	83	1	118
80	29	1	32	30	2	316	310	6	9	9		9	9		119
27	27		43	43		1,123	1,121	2	90	90		63	63		120
1,044	1,043	1	486	484	2	6,300	6,290	10	5,074	5,057	17	4,718	4,701	17	121
223	219	4	79	74	5	9	7	2	1	1					122
155	155		85	35		241	226	15	60	58	2	55	54	1	123
527	527		196	194	2	894	893	1	245	245		235	235		124
24	22	2	7			1,590	1,581	9	1,122	1,120	2	1,025	1,023	2	125
1	1		6	3	3	94	88	6	24	21	3	23	20	3	126
108	108		33	33		51	26	25							127
16	14	2	14	14		784	784		100	100		97	97		128
5,258	5,257	1	848	848		100	97	3	15	14	1	15	14	1	129
303	58	245	69	38	31	7,653	7,653	1	9,835	9,834	1	9,790	9,789	1	130
253	249	4	43	43		628	341	287	30	5	25	29	5	24	131
482	481	1	47	47		270	270		176	176		176	176		132
22	21	1	15	10	5	1,026	1,026		930	928	2	930	928	2	133
34	33	1	16	8	8	157	150	7	28	27	1	28	27	1	134
						273	250	23	17	17		8	8		135
62	46	16	40	24	16	758	483	275	125	94	31	119	88	31	136
1,133	1,132	1	210	210		864	861	3	1,151	1,151		1,142	1,142		137
10	10		7	7		132	132		10	10		10	10		138
2		2	12	2	10	46	9	37							139
9,677	4,414	5,263	2,613	1,322	1,291	19,465	10,201	9,264	527	369	158	527	369	158	140
122	122		5	5		64	62	2	298	298		297	297		141
18	18		11	11		60	60		12	12		12	12		142
601	1	600	227	1	226	1,764	90	1,674	713	1	712	709	1	708	143
4	4		5	5		14	14								144
2	2					5	5								145
4	4		1	1		34	34		150	147	3	131	128	3	146
8	7	1	8	8		29	29	9	69	69		21	21		147
40	40		25	25		296	296		142	142		141	141		148
695	682	13	285	278	7	641	631	10	74	72	2	74	72	2	149

b Persons of negro descent, Chinese, Japanese, and civilized Indians.

TABLE 14.—TOTAL ILLITERATE PERSONS 10 YEARS OF AGE AND OVER IN THE UNITED STATES ENGAGED

OCCUPATIONS.	AGGREGATE.			WHITE.			NATIVE WHITE.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
Manufacturing and mechanical industries—Cont'd.									
155 Glove makers.....	103	41	62	101	39	62	40	8	32
156 Gold and silver workers.....	397	368	29	382	353	29	72	67	5
157 Gunsmiths, locksmiths, and bell hangers.....	312	311	1	299	298	1	69	69	-----
158 Hair workers.....	57	36	21	57	36	21	20	14	6
159 Harness and saddle makers and repairers.....	583	578	5	484	479	5	178	175	3
160 Hat and cap makers.....	932	827	105	919	817	102	81	63	18
161 Hosiery and knitting mill operatives (a).....	1,135	407	728	1,111	401	710	506	158	348
162 Iron and steel workers (a).....	13,182	13,091	91	10,586	10,522	64	2,717	2,695	22
163 Lace and embroidery makers.....	117	45	72	109	45	64	32	4	28
164 Lead and zinc workers.....	382	381	1	330	329	1	93	92	1
165 Leather curriers, dressers, finishers, and tanners..	2,720	2,709	11	2,233	2,223	10	407	404	3
166 Machinists.....	2,436	2,436	-----	2,197	2,197	-----	549	549	-----
167 Manufacturers and officials of manufacturing companies.....	947	940	7	797	791	6	302	299	3
168 Marble and stone cutters.....	3,162	3,160	2	2,588	2,586	2	579	579	-----
169 Masons (brick and stone).....	10,786	10,784	2	7,037	7,037	-----	2,095	2,095	-----
170 Meat and fruit packers, canners, and preservers (a).....	656	476	180	329	173	156	92	40	52
171 Mechanics (not otherwise specified).....	742	742	-----	375	375	-----	279	279	-----
172 Metal workers (not otherwise specified).....	871	853	18	799	781	18	189	135	4
173 Mill and factory operatives (not specified) (a).....	10,522	6,542	3,980	8,498	4,743	3,755	3,013	1,489	1,524
174 Millers (flour and grist).....	2,582	2,571	11	1,769	1,761	8	1,486	1,479	7
175 Milliners.....	521	4	517	420	3	417	323	2	321
176 Model and pattern makers.....	59	59	-----	56	56	-----	9	9	-----
177 Molders.....	1,843	1,843	-----	1,617	1,617	-----	481	481	-----
178 Musical instrument makers (not otherwise specified) (a).....	11	10	1	10	9	1	2	2	-----
179 Nail and tack makers (a).....	188	171	17	180	163	17	118	108	10
180 Oil well employes.....	70	70	-----	68	68	-----	50	50	-----
181 Oil works employes.....	581	580	1	176	176	-----	36	36	-----
182 Painters, glaziers, and varnishers.....	4,751	4,737	14	3,470	3,456	14	1,310	1,304	6
183 Paper hangers.....	136	133	3	97	96	1	30	29	1
184 Paper mill operatives.....	1,992	1,262	730	1,864	1,146	718	364	247	117
185 Photographers.....	66	60	6	50	44	6	19	17	2
186 Piano and organ makers and tuners (a).....	270	267	3	256	253	3	52	52	-----
187 Plasterers.....	2,464	2,463	1	1,021	1,020	1	485	485	-----
188 Plumbers and gas and steam fitters.....	591	591	-----	356	356	-----	121	121	-----
189 Potters.....	647	600	47	563	524	39	281	261	19
190 Powder and cartridge makers.....	60	57	3	27	24	3	10	10	-----
191 Printers, lithographers, and pressmen (a).....	327	307	20	231	215	16	85	75	10
192 Print works operatives (a).....	306	281	25	300	275	25	46	41	5
193 Publishers of books, maps, and newspapers.....	-----	-----	-----	-----	-----	-----	-----	-----	-----
194 Roofers and slaters.....	287	287	-----	204	204	-----	58	58	-----
195 Rope and cordage makers.....	656	493	163	479	320	159	131	80	51
196 Rubber factory operatives.....	552	440	112	545	433	112	78	57	21
197 Sail, awning, and tent makers.....	50	47	3	43	41	2	13	13	-----
198 Salt works employes.....	221	220	1	191	190	1	27	27	-----
199 Saw and planing mill employes (a).....	20,898	20,854	44	11,127	11,102	25	5,159	5,140	19
200 Seamstresses (a).....	9,376	369	9,007	5,896	348	5,548	3,852	23	3,829
201 Sewing machine makers (not otherwise classified) (a).....	17	15	2	15	13	2	4	4	-----
202 Sewing machine operators (a).....	418	221	197	412	218	194	19	4	15
203 Ship and boat builders.....	1,370	1,370	-----	1,179	1,179	-----	539	539	-----
204 Shirt, collar, and cuff makers (a).....	1,000	512	488	868	394	474	104	21	83
205 Silk mill operatives (a).....	1,124	619	505	1,124	619	505	258	104	154
206 Starch makers.....	55	31	24	32	30	2	11	10	1
207 Steam boiler makers.....	589	589	-----	534	534	-----	204	204	-----
208 Stove, furnace, and grate makers (a).....	371	371	-----	316	316	-----	120	120	-----
209 Straw workers.....	33	24	9	31	22	9	12	10	2
210 Sugar makers and refiners.....	264	264	-----	241	241	-----	10	10	-----
211 Tailors and tailoresses (a).....	15,667	12,091	3,576	15,128	11,700	3,428	598	217	381
212 Tanners and tinware makers.....	1,165	1,146	19	972	955	17	280	272	8
213 Tobacco and cigar factory operatives.....	10,942	6,928	4,014	3,710	2,298	1,412	1,064	621	443
214 Tool and cutlery makers (not otherwise classified) (a).....	728	714	14	699	685	14	147	145	2
215 Trunk, valise, leather-case, and pocket-book makers.....	166	158	8	143	135	8	50	47	3
216 Umbrella and parasol makers.....	65	54	11	64	53	11	14	12	2
217 Upholsterers.....	475	438	37	285	261	24	84	68	16
218 Well borers.....	125	125	-----	81	81	-----	69	69	-----
219 Wheelwrights.....	510	510	-----	328	328	-----	168	168	-----
220 Whitewashers.....	1,459	1,455	4	118	117	1	42	41	1
221 Wire workers.....	628	612	16	605	589	16	81	75	6
222 Wood workers (not otherwise specified).....	2,980	2,831	149	2,303	2,190	113	823	773	50
223 Woolen mill operatives (a).....	5,207	3,298	1,909	5,054	3,196	1,858	1,237	749	488
224 Other persons in manufacturing and mechanical industries.....	8,785	7,904	881	4,256	3,625	631	1,094	898	196

a See explanatory notes in Table 2.

IN EACH SPECIFIED OCCUPATION, CLASSIFIED BY SEX, GENERAL NATIVITY, AND COLOR: 1890—Continued.

NATIVE WHITE—NATIVE PARENTS.			NATIVE WHITE—FOREIGN PARENTS.			FOREIGN WHITE.			COLORED. (b)			PERSONS OF NEGRO DESCENT.			
Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	
30	7	23	10	1	9	51	31	30	2	2		1	1	155	
26	26		46	41	5	310	280	24	15	15		9	9	156	
50	50		10	10		230	229	1	13	13		12	12	157	
6	4	2	14	10	4	37	22	15						158	
138	136	2	40	39	1	306	304	2	99	99		97	97	159	
43	32	11	38	31	7	838	754	84	13	10	3	10	7	3	160
321	288	233	185	70	115	605	243	362	24	6	18	24	6	18	161
1,791	1,788	3	926	907	19	7,869	7,827	42	2,596	2,569	27	2,584	2,557	27	162
24	4	20	8		8	77	41	36	8		8	5		5	163
78	78		15	14	1	237	237		52	52		52	52		164
292	290	2	115	114	1	1,826	1,819	7	487	486	1	484	483	1	165
371	371		178	178		1,648	1,648		239	239		213	213		166
250	248	2	52	51	1	495	492	3	150	149	1	144	143	1	167
412	412		167	167		2,009	2,007	2	574	574		566	566		168
1,653	1,653		442	442		4,942	4,942		3,749	3,747	2	3,734	3,732	2	169
43	19	24	49	21	28	237	133	104	327	303	24	55	31	24	170
258	258		21	21		96	96		367	367		365	365		171
95	94	1	44	41	3	660	646	14	72	72		71	71		172
2,210	1,065	1,145	803	424	379	5,485	3,254	2,231	2,024	1,799	225	1,885	1,662	223	173
1,428	1,421	7	58	58		283	282	1	813	810	3	811	808	3	174
302	2	300	21		21	97	1	96	101	1	100	98	1	97	175
5	5		4	4		47	47		3	3		3	3		176
267	267		214	214		1,136	1,136		226	226		226	226		177
1	1		1	1		8	7	1	1	1		1	1		178
71	69	2	47	39	8	62	55	7	8	8		6	6		179
36	36		14	14		18	18		2	2		2	2		180
20	20		16	16		140	140		405	404	1	405	404	1	181
948	944	4	362	360	2	2,160	2,152	8	1,281	1,281		1,276	1,276		182
22	21	1	8	8		67	67		39	37	2	37	35	2	183
201	146	55	163	101	62	1,500	899	601	128	116	12	106	94	12	184
16	14	2	3	3		31	27	4	16	16		16	16		185
31	31		21	21		204	201	3	14	14		13	13		186
413	413		72	72		536	535	1	1,443	1,443		1,443	1,443		187
66	66		55	55		235	235		235	235		235	235		188
199	189	10	81	72	9	283	263	20	84	76	8	77	75	2	189
7	7		3	3		17	14	3	33	33		33	33		190
48	42	6	37	33	4	146	140	6	96	92	4	93	89	4	191
14	13	1	32	28	4	254	234	20	6	6		6	6		192
33	33		25	25		146	146		83	83		83	83		193
84	51	33	47	29	18	348	240	108	177	173	4	60	56	4	195
28	25	3	50	32	18	467	376	91	7	7		4	4		196
10	10		3	3		30	28	2	7	6	1	7	6	1	197
19	19		8	8		164	163	1	30	30		30	30		198
4,307	4,289	18	852	851	1	5,968	5,962	6	9,771	9,752	19	9,554	9,535	19	199
3,467	15	3,452	385	8	377	2,044	325	1,719	3,480	21	3,459	3,416	10	3,406	200
1	1		3	3		11	9	2	2	2		2	2		201
9	4	5	10		10	393	214	179	6	3	3	3		3	202
465	465		74	74		640	640		191	191		166	166		203
54	16	38	50	5	45	764	373	391	132	118	14	31	17	14	204
102	43	59	156	61	95	866	515	351							205
5	4	1	6	6		21	20	1	23	1	22	1	1		206
122	122		82	82		330	330		55	55		55	55		207
71	71		40	49		196	196		55	55		54	54		208
7	6	1	5	4	1	19	12	7	2	2		2	2		209
6	6		4	4		231	231		23	23		23	23		210
355	128	227	243	89	154	14,530	11,483	3,047	539	391	148	222	139	83	211
167	162	5	113	110	3	692	683	9	193	191	2	185	183	2	212
801	458	343	263	163	100	2,646	1,677	969	7,232	4,630	2,602	6,786	4,190	2,596	213
94	92	2	53	53		552	540	12	20	29		29	29		214
31	30	1	19	17	2	93	88	5	23	23		22	22		215
4	3	1	10	9	1	50	41	9	1	1		1	1		216
66	53	13	18	15	3	201	193	8	190	177	13	189	176	13	217
55	55		14	14		12	12		44	44		44	44		218
149	140		19	19		160	160		182	182		181	181		219
36	35	1	6	6		76	70		1,341	1,338	3	1,341	1,338	3	220
32	31	1	49	44	5	524	514	10	23	23		23	23		221
629	599	30	194	174	20	1,480	1,417	63	677	641	36	661	626	35	222
501	323	178	736	426	310	3,817	2,447	1,370	153	102	51	137	86	51	223
814	658	156	280	240	40	3,162	2,727	435	4,529	4,279	250	4,423	4,181	242	224

b Persons of negro descent, Chinese, Japanese, and civilized Indians.

STATISTICS OF POPULATION.

TABLE 15.—TOTAL PERSONS 10 YEARS OF AGE AND OVER WHO CAN NOT SPEAK ENGLISH ENGAGED IN GAINFUL

STATES AND TERRITORIES.	ALL OCCUPATIONS.			AGRICULTURE, FISHERIES, AND MINING.			PROFESSIONAL SERVICE.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
The United States	881,246	765,152	116,094	283,468	271,164	12,304	5,504	4,921	583
North Atlantic division	332,144	274,311	57,833	45,606	45,053	553	2,240	1,965	275
Maine	10,074	6,499	3,575	1,908	1,933	35	40	24	16
New Hampshire	11,651	6,644	5,007	420	417	3	20	12	8
Vermont	1,854	1,629	225	514	509	5	16	7	9
Massachusetts	33,697	23,135	10,562	2,082	2,072	10	203	154	49
Rhode Island	7,801	4,936	2,865	526	516	10	23	20	3
Connecticut	11,629	9,245	2,384	1,378	1,373	5	34	26	8
New York	129,062	106,012	23,050	6,283	6,114	169	1,381	1,251	130
New Jersey	24,761	21,599	3,162	1,981	1,914	67	158	145	13
Pennsylvania	101,615	94,612	7,003	30,454	30,205	249	365	326	39
South Atlantic division	16,941	14,115	2,826	2,382	2,081	301	230	205	25
Delaware	697	650	47	37	36	1	4	4	.....
Maryland	8,763	6,819	1,944	1,203	940	263	64	57	7
District of Columbia	309	226	83	12	9	3	13	10	3
Virginia	1,288	1,254	34	277	274	3	100	100	.....
West Virginia	1,168	1,118	50	355	349	6	2	2	.....
North Carolina	369	340	29	287	274	13	.....	.....	.....
South Carolina	105	89	16	47	40	7	2	2	.....
Georgia	214	192	22	37	34	3	3	2	1
Florida	4,028	3,427	601	127	125	2	42	28	14
North Central division	316,779	279,831	36,948	135,507	129,922	5,585	1,543	1,379	164
Ohio	31,595	28,072	3,523	5,840	5,500	340	155	140	15
Indiana	8,257	7,300	957	3,584	3,332	252	75	63	12
Illinois	62,463	53,993	8,470	13,977	13,388	589	391	358	33
Michigan	40,227	36,579	3,648	14,539	14,202	337	134	123	11
Wisconsin	55,646	49,704	5,942	25,223	24,073	150	247	215	32
Minnesota	42,064	36,524	5,540	25,406	24,432	974	144	133	11
Iowa	22,329	19,644	2,685	13,420	12,842	578	100	84	16
Missouri	13,750	12,060	1,690	4,267	3,980	287	116	103	13
North Dakota	6,557	5,606	951	5,157	4,987	170	12	12	.....
South Dakota	8,277	7,422	855	6,617	6,383	234	30	30	.....
Nebraska	16,609	14,795	1,814	10,748	10,361	387	97	80	17
Kansas	9,005	8,132	873	6,729	6,442	287	42	38	4
South Central division	77,600	66,360	11,240	48,357	43,254	5,103	446	371	75
Kentucky	2,665	2,346	319	721	690	31	21	14	7
Tennessee	730	675	55	318	303	15	15	12	3
Alabama	470	440	30	216	208	8	6	6	.....
Mississippi	566	433	133	341	244	97	2	2	.....
Louisiana	29,508	23,640	5,868	22,288	18,909	3,379	121	73	48
Texas	42,736	37,981	4,755	23,849	22,306	1,543	270	253	17
Oklahoma	105	97	8	78	74	4	.....	.....	.....
Arkansas	820	744	72	546	520	26	11	11	.....
Western division	137,782	130,535	7,247	51,616	50,854	762	1,045	1,001	44
Montana	3,014	2,903	111	830	823	7	9	7	2
Wyoming	1,362	1,327	35	877	876	1	3	3	.....
Colorado	10,442	9,896	546	4,310	4,250	60	44	41	3
New Mexico	31,347	28,966	2,381	18,079	17,719	360	216	200	16
Arizona	6,438	5,721	717	2,362	2,341	21	49	48	1
Utah	2,139	1,924	215	604	587	17	10	10	.....
Nevada	2,303	2,120	183	932	891	41	21	21	.....
Idaho	1,696	1,656	40	859	853	6	3	3	.....
Washington	6,236	5,868	368	1,656	1,590	66	11	11	.....
Oregon	8,986	8,709	277	1,825	1,807	18	110	109	1
California	63,819	61,445	2,374	19,282	19,117	165	569	548	21

OCCUPATIONS.

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OCCUPATIONS AND IN EACH CLASS OF OCCUPATIONS, CLASSIFIED BY SEX, BY STATES AND TERRITORIES: 1890.

STATES AND TERRITORIES.	DOMESTIC AND PERSONAL SERVICE.			TRADE AND TRANSPORTATION.			MANUFACTURING AND MECHANICAL INDUSTRIES.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
The United States.....	288,876	230,118	58,758	60,357	58,232	2,125	243,041	200,717	42,324
North Atlantic division.....	111,819	89,321	22,498	26,142	25,084	1,058	146,337	112,888	33,449
Maine.....	1,783	1,444	339	301	293	8	5,932	2,805	3,177
New Hampshire.....	1,469	1,212	257	475	464	11	9,267	4,589	4,728
Vermont.....	496	395	101	135	134	1	603	584	109
Massachusetts.....	7,300	5,950	1,350	1,289	1,223	66	22,823	13,736	9,087
Rhode Island.....	1,523	1,323	200	299	234	15	5,430	2,793	2,637
Connecticut.....	3,636	2,936	700	554	536	18	6,027	4,374	1,653
New York.....	44,055	31,556	12,499	13,624	12,980	644	63,719	54,111	9,608
New Jersey.....	9,494	7,593	1,901	2,349	2,232	117	10,779	9,715	1,064
Pennsylvania.....	42,063	36,912	5,151	7,116	6,938	178	21,617	20,231	1,386
South Atlantic division.....	4,267	3,016	1,251	2,416	2,262	154	7,646	6,551	1,095
Delaware.....	344	304	40	71	70	1	241	236	5
Maryland.....	2,914	2,010	904	986	846	140	3,596	2,966	630
District of Columbia.....	113	50	63	60	56	4	111	101	10
Virginia.....	109	84	25	587	584	3	215	212	3
West Virginia.....	255	220	35	371	371	.....	185	176	9
North Carolina.....	46	31	15	15	15	.....	21	20	1
South Carolina.....	14	8	6	24	23	1	18	16	2
Georgia.....	89	28	11	79	77	2	56	51	5
Florida.....	433	281	152	223	220	3	3,203	2,773	430
North Central division.....	95,887	70,730	25,157	15,517	14,919	598	68,325	62,881	5,444
Ohio.....	14,161	11,712	2,449	1,902	1,866	96	9,477	8,854	623
Indiana.....	2,327	1,738	589	454	445	9	1,817	1,722	95
Illinois.....	22,606	17,240	5,366	4,441	4,212	229	21,048	18,795	2,253
Michigan.....	14,237	11,662	2,575	2,016	1,942	74	9,301	8,650	651
Wisconsin.....	15,700	12,012	3,688	2,079	1,994	85	12,397	11,410	987
Minnesota.....	10,932	6,640	4,292	1,097	1,083	14	4,485	4,236	249
Iowa.....	4,896	2,942	1,954	1,193	1,179	14	2,720	2,597	123
Missouri.....	3,863	2,820	1,043	1,018	964	54	4,486	4,193	293
North Dakota.....	1,110	354	756	88	88	.....	190	165	25
South Dakota.....	1,182	584	598	170	169	1	278	256	22
Nebraska.....	3,659	2,350	1,309	711	692	19	1,394	1,312	82
Kansas.....	1,214	676	538	288	285	3	732	691	41
South Central division.....	18,102	13,592	4,510	4,640	4,402	238	6,055	4,741	1,314
Kentucky.....	670	463	207	295	289	6	958	800	68
Tennessee.....	148	120	28	108	104	4	141	136	5
Alabama.....	121	103	18	71	71	.....	56	52	4
Mississippi.....	60	53	7	85	80	5	73	54	24
Louisiana.....	4,155	2,506	1,649	1,079	933	146	1,865	1,219	646
Texas.....	12,807	10,244	2,563	2,950	2,879	77	2,854	2,299	555
Oklahoma.....	17	13	4	2	2	.....	8	8	.....
Arkansas.....	124	90	34	44	44	.....	95	83	12
Western division.....	58,801	53,459	5,342	11,642	11,565	77	14,678	13,656	1,022
Montana.....	1,414	1,319	95	412	412	.....	349	342	7
Wyoming.....	255	223	32	186	186	.....	41	39	2
Colorado.....	4,172	3,737	435	1,203	1,199	4	713	669	44
New Mexico.....	11,121	9,424	1,697	829	822	7	1,102	801	301
Arizona.....	3,029	2,477	552	575	571	4	423	284	139
Utah.....	991	841	150	181	179	2	353	307	46
Nevada.....	999	879	120	221	220	1	130	109	21
Idaho.....	495	466	29	259	257	2	80	77	3
Washington.....	3,140	2,862	278	635	629	6	704	776	18
Oregon.....	5,044	4,823	221	730	723	7	1,277	1,247	30
California.....	28,141	26,408	1,733	6,411	6,367	44	9,416	9,005	411

TABLE 16.—TOTAL PERSONS 10 YEARS OF AGE AND OVER IN THE UNITED STATES WHO CAN NOT SPEAK ENGLISH

	OCCUPATIONS.	AGGREGATE.			WHITE.			NATIVE WHITE.		
		Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
1	All occupations.....	881,246	765,152	116,094	796,935	683,879	111,056	85,635	74,472	11,163
2	Agriculture, fisheries, and mining.....	283,468	271,164	12,304	257,307	247,385	9,922	50,523	48,111	2,412
3	Agricultural laborers (a).....	82,814	78,303	4,511	70,937	68,327	2,610	19,041	17,858	1,183
4	Apiarists.....	17	17	—	16	16	—	2	2	—
5	Dairymen and dairywomen.....	1,433	1,345	88	1,402	1,314	88	30	22	8
6	Farmers, planters, and overseers (a).....	126,837	119,606	7,231	121,532	114,661	6,871	23,404	22,268	1,136
7	Fishermen and oystermen (a).....	2,390	2,353	37	1,676	1,672	4	299	297	2
8	Gardeners, florists, nurserymen, and vine growers.....	4,292	4,099	193	3,049	2,876	173	97	86	11
9	Lumbermen and raftsmen.....	2,193	2,193	—	2,072	2,072	—	186	186	—
10	Miners (coal).....	24,699	24,679	20	24,585	24,565	20	452	451	1
11	Miners (not otherwise specified).....	17,972	17,905	67	13,078	13,065	13	553	550	3
12	Quarrymen.....	4,566	4,560	6	4,521	4,515	6	131	131	—
13	Stock raisers, herders, and drovers.....	12,229	12,112	117	11,524	11,420	104	5,895	5,835	60
14	Wood choppers.....	3,879	3,876	3	2,792	2,790	2	390	390	—
15	Other agricultural pursuits (a).....	147	116	31	123	122	1	43	35	8
16	Professional service.....	5,504	4,921	583	4,826	4,267	559	486	375	111
17	Actors.....	351	289	62	92	42	50	—	—	—
18	Architects.....	49	49	—	49	49	—	2	2	—
19	Artists and teachers of art.....	213	189	24	211	187	24	6	6	—
20	Authors and literary and scientific persons.....	28	22	6	27	21	6	3	1	2
21	Chemists, assayers, and metallurgists.....	45	45	—	45	45	—	—	—	—
22	Clergymen.....	761	760	1	728	727	1	29	29	—
23	Dentists.....	32	31	1	30	29	1	3	3	—
24	Designers, draftsmen, and inventors.....	68	67	1	68	67	1	4	4	—
25	Engineers (civil, mechanical, electrical, and mining) and surveyors.....	120	118	2	120	118	2	9	9	—
26	Journalists.....	56	55	1	55	54	1	4	4	—
27	Lawyers.....	93	93	—	85	85	—	42	42	—
28	Musicians and teachers of music.....	1,648	1,552	96	1,529	1,537	92	159	145	14
29	Officers of United States army and navy.....	1	1	—	1	1	—	1	1	—
30	Officials (government) (a).....	270	268	2	256	254	2	27	26	1
31	Physicians and surgeons.....	478	457	21	237	219	18	19	17	2
32	Professors in colleges and universities.....	28	24	4	28	24	4	7	3	4
33	Teachers.....	918	573	345	900	558	342	142	57	85
34	Theatrical managers, showmen, etc.....	274	259	15	196	183	13	16	16	—
35	Veterinary surgeons.....	62	62	—	61	61	—	10	10	—
36	Other professional service.....	9	7	2	8	6	2	1	—	1
37	Domestic and personal service.....	288,876	230,118	58,758	249,082	192,159	56,923	23,117	17,355	5,762
38	Barbers and hairdressers.....	3,037	2,979	58	2,449	2,294	55	57	57	—
39	Bartenders.....	856	848	8	818	840	8	45	44	1
40	Boarding and lodging house keepers.....	1,064	480	584	848	274	574	29	6	23
41	Engineers and firemen (not locomotive).....	1,482	1,482	—	1,470	1,470	—	90	90	—
42	Hotel keepers.....	357	300	57	317	261	56	40	37	3
43	Housekeepers and stewards (a).....	3,225	84	3,141	3,113	62	3,051	380	10	370
44	Hunters, trappers, guides, and scouts.....	423	412	11	47	47	—	27	27	—
45	Janitors.....	410	318	92	394	302	92	15	10	5
46	Laborers (not specified) (a).....	195,753	193,560	2,193	178,398	176,375	2,023	16,743	16,304	439
47	Launderers and laundresses.....	13,108	12,760	348	5,580	772	4,808	808	30	778
48	Nurses and midwives.....	1,202	70	1,132	1,173	62	1,111	94	2	92
49	Restaurant keepers.....	497	436	61	338	279	59	12	9	3
50	Saloon keepers.....	1,762	1,633	129	1,715	1,588	127	62	60	2
51	Servants.....	58,539	12,668	45,871	50,328	5,437	44,891	4,660	615	4,045
52	Sextons.....	160	158	2	155	153	2	9	9	—
53	Soldiers, sailors, and marines (United States) (a).....	76	76	—	30	30	—	5	5	—
54	Watchmen, policemen, and detectives.....	867	866	1	858	857	1	32	32	—
55	Other domestic and personal service.....	1,063	988	75	1,021	956	65	9	8	1
56	Trade and transportation.....	60,357	58,232	2,125	53,053	50,983	2,070	3,055	2,931	124
57	Agents (claim, commission, real estate, insurance, etc.) and collectors.....	654	631	23	618	596	22	71	70	1
58	Auctioneers.....	8	8	—	8	8	—	1	1	—
59	Bankers and brokers (money and stocks).....	139	126	13	95	82	13	5	5	—
60	Boatmen and canalmen.....	122	122	—	108	108	—	23	23	—
61	Bookkeepers and accountants (a).....	375	361	14	277	263	14	19	16	3
62	Brokers (commercial).....	15	15	—	13	13	—	—	—	—
63	Clerks and copyists (a).....	3,494	3,305	189	2,558	2,374	184	286	258	28
64	Commercial travelers.....	92	90	2	89	87	2	4	4	—
65	Draymen, hackmen, teamsters, etc.....	5,925	5,923	2	5,837	5,836	1	632	632	—
66	Foremen and overseers.....	247	243	4	225	221	4	8	8	—
67	Hostlers.....	1,146	1,146	—	1,122	1,122	—	65	65	—
68	Hucksters and peddlers.....	8,313	7,895	418	7,811	7,403	408	100	101	—
69	Livery stable keepers.....	70	70	—	64	64	—	6	6	—
70	Locomotive engineers and firemen (a).....	146	146	—	142	142	—	18	18	—
71	Merchants and dealers in drugs and chemicals (retail).....	176	169	7	115	108	7	8	8	—
72	Merchants and dealers in dry goods (retail).....	266	237	29	253	224	29	12	12	—
73	Merchants and dealers in groceries (retail).....	1,883	1,640	243	1,719	1,479	240	62	54	8
74	Merchants and dealers in wines and liquors (retail).....	140	140	—	144	138	6	2	1	1
75	Merchants and dealers in wines and liquors (wholesale).....	31	30	1	30	29	1	1	1	—

a See explanatory notes in Table 2.

OCCUPATIONS.

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ENGAGED IN EACH SPECIFIED OCCUPATION, CLASSIFIED BY SEX, GENERAL NATIVITY, AND COLOR: 1890.

NATIVE WHITE—NATIVE PARENTS.			NATIVE WHITE—FOREIGN PARENTS.			FOREIGN WHITE.			COLORED. (b)			PERSONS OF NEGRO DESCENT.			
Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	
63,530	56,829	6,701	22,105	17,643	4,462	711,300	611,407	99,893	84,311	79,273	5,038	10,682	7,260	3,422	1
39,630	37,785	1,845	10,893	10,326	567	206,784	199,274	7,510	26,161	23,779	2,382	7,021	5,030	1,991	2
14,026	13,181	845	5,015	4,677	338	51,896	50,469	1,427	11,877	9,976	1,901	4,757	2,998	1,759	3
1	1	1	1	1	1	14	14	1	1	1	1	1	1	1	4
16	12	4	14	10	4	1,372	1,292	80	31	31	360	14	14	223	5
19,403	18,471	932	4,001	3,797	204	98,128	92,303	5,735	5,305	4,945	360	1,959	1,736	223	6
249	247	2	50	50	2	1,377	1,375	2	714	681	33	65	63	2	7
65	58	7	32	28	4	2,952	2,790	163	1,243	1,223	20	16	12	4	8
160	160	1	26	26	1	1,886	1,886	1	121	121	1	4	4	1	9
310	309	1	142	142	1	24,133	24,114	19	114	114	1	21	21	1	10
317	316	1	236	234	2	12,525	12,515	10	4,894	4,840	54	74	74	1	11
108	108	1	23	23	1	4,390	4,384	6	45	45	1	10	10	1	12
4,622	4,577	45	1,273	1,258	15	5,629	5,585	44	705	692	13	82	79	3	13
514	514	1	76	76	1	2,402	2,400	2	1,087	1,086	1	19	19	1	14
39	31	8	4	4	1	80	57	23	24	24	1	19	19	1	15
319	268	51	167	107	60	4,340	3,892	448	678	654	24	29	22	7	16
1	1	1	1	1	1	92	42	50	259	247	12	1	1	1	17
2	1	1	6	5	1	47	47	1	2	2	1	1	1	1	18
2	1	1	1	1	1	203	131	22	2	2	1	1	1	1	19
						24	20	4	1	1	1	1	1	1	20
						45	45	1							21
16	16	1	13	13	1	690	698	1	33	33	1	4	4	1	22
2	2	1	1	1	1	27	26	1	2	2	1	1	1	1	23
1	1	1	3	3	1	64	63	1							24
6	6	1	3	3	1	111	109	2							25
2	2	1	2	2	1	51	50	1	1	1	1	1	1	1	26
38	38	1	4	4	1	43	43	1	8	8	1	5	5	1	27
122	112	10	37	33	4	1,470	1,392	78	19	15	4	8	5	3	28
1	1	1	13	13	1	239	228	1	14	14	1	4	3	1	29
14	13	1	3	3	1	218	202	16	241	238	3	4	3	1	30
18	14	2	3	3	1	21	21	1							31
2	1	1	5	2	3	758	501	257	18	15	3	5	2	3	32
80	40	34	62	11	51	180	167	13	78	76	2	1	1	1	33
7	7	1	9	9	1	51	51	1	1	1	1	1	1	1	34
6	6	1	4	4	1	7	6	1	1	1	1	1	1	1	35
1	1	1	1	1	1				1	1	1	1	1	1	36
17,323	13,649	3,674	5,794	3,706	2,088	225,965	174,804	51,161	39,794	37,959	1,835	2,106	1,020	1,086	37
17	17	1	40	40	1	2,392	2,337	55	588	585	3	22	20	2	38
23	22	1	22	22	1	803	796	7	216	206	10	4	4	1	39
19	19	1	10	6	4	819	268	551	12	12	1	5	2	3	40
66	66	1	24	24	1	1,380	1,380	1	12	12	1	1	1	1	41
31	29	2	9	8	1	277	224	53	40	39	1	1	1	1	42
289	8	281	91	2	89	2,733	52	2,681	112	22	90	37	1	36	43
25	25	1	2	2	1	20	20	1	376	365	11	9	9	1	44
11	6	5	4	4	1	379	292	87	16	16	1	6	6	1	45
13,303	12,980	323	3,440	3,324	116	161,655	160,071	1,584	17,355	17,185	170	897	819	78	46
644	25	619	164	5	159	4,772	742	4,030	12,523	11,988	535	351	16	335	47
68	1	67	26	1	25	1,079	60	1,019	29	8	21	20	1	20	48
5	4	1	7	5	2	326	270	56	159	157	2	6	6	1	49
34	34	1	28	26	2	1,653	1,528	125	47	45	2	7	6	1	50
2,760	404	2,356	1,900	211	1,689	45,668	4,822	40,846	8,211	7,231	980	726	116	610	51
5	5	1	4	4	1	146	144	2	5	5	1	1	1	1	52
3	3	1	2	2	1	25	25	1	48	46	1	1	1	1	53
20	20	1	12	12	1	826	825	1	9	9	1	1	1	1	54
			9	8	1	1,012	948	64	42	32	10	11	11	1	55
1,976	1,931	45	1,070	1,000	79	49,998	48,052	1,946	7,304	7,249	55	237	224	13	56
61	60	1	10	10	1	547	526	21	36	35	1	1	1	1	57
1	1	1				7	7	1							58
5	5	1				90	77	13	44	44	1	2	2	1	59
19	19	1	4	4	1	85	85	1	14	14	1	2	2	1	60
7	7	1	12	9	3	258	247	11	98	98	1	2	2	1	61
						13	13	1	2	2	1				62
125	120	5	161	138	23	2,272	2,116	156	936	931	5	10	9	1	63
2	2	1	2	2	1	85	83	2	8	8	1	26	25	1	64
369	369	1	263	263	1	5,205	5,204	1	88	87	1	1	1	1	65
5	5	1	3	3	1	217	213	4	22	22	1				66
56	56	1	9	9	1	1,057	1,057	1	24	24	1	7	7	1	67
55	54	1	51	47	4	7,705	7,302	403	502	492	10	32	29	3	68
5	5	1	1	1	1	58	58	1	6	6	1	4	4	1	69
11	11	1	7	7	1	124	124	1	4	4	1	2	2	1	70
3	3	1	5	5	1	107	100	7	61	61	1				71
8	8	1	4	4	1	241	212	29	13	13	1	1	1	1	72
34	29	5	28	25	3	1,657	1,425	232	164	161	3	16	14	2	73
1	1	1	1	1	1	142	137	5	2	2	1	1	1	1	74
1	1	1				29	28	1	1	1	1	1	1	1	75

b Persons of negro descent, Chinese, Japanese, and civilized Indians.

STATISTICS OF POPULATION.

TABLE 16.—TOTAL PERSONS 10 YEARS OF AGE AND OVER IN THE UNITED STATES WHO CAN NOT SPEAK ENGLISH

OCCUPATIONS.	AGGREGATE.			WHITE.			NATIVE WHITE.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
Trade and transportation—Continued.									
76 Merchants and dealers, not specified (retail).....	9,058	8,529	527	6,794	6,289	505	249	213	36
77 Merchants and dealers (wholesale), importers, and shipping merchants.....	129	127	2	122	120	2	21	21	—
78 Messengers and errand and office boys.....	309	287	22	304	283	21	39	38	1
79 Newspaper carriers and newsboys.....	115	112	3	115	112	3	3	3	—
80 Officials of banks and of insurance, trade, transportation, trust, and other companies. (a)	148	147	1	140	139	1	12	12	—
81 Packers and shippers.....	731	632	99	643	551	92	134	132	2
82 Pilots.....	9	9	—	7	7	—	3	3	—
83 Porters and helpers (in stores and warehouses).....	527	517	10	456	446	10	16	16	—
84 Sailors (a).....	730	729	1	630	629	1	32	32	—
85 Salesmen and saleswomen.....	1,283	1,072	211	1,214	1,006	208	110	84	26
86 Steam railroad employes (not otherwise specified). (a)	22,760	22,724	36	20,102	20,068	34	1,011	1,007	4
87 Stenographers and typewriters.....	35	30	5	35	30	5	4	1	3
88 Street railway employes.....	443	443	—	441	441	—	60	60	—
89 Telegraph and telephone operators.....	72	54	18	72	54	18	13	11	2
90 Telegraph and telephone linemen and electric light and power company employes.....	93	92	1	92	91	1	—	—	—
91 Undertakers.....	48	47	1	43	42	1	6	6	—
92 Weighers, gaugers, and measurers.....	21	21	—	20	20	—	—	—	—
93 Other persons in trade and transportation.....	600	363	237	595	358	237	13	9	4
94 Manufacturing and mechanical industries.....	243,041	200,717	42,324	232,667	191,085	41,582	8,454	5,700	2,754
95 Agricultural implement makers (not otherwise classified). (a)	253	253	—	251	251	—	1	1	—
96 Apprentices (blacksmiths).....	54	54	—	54	54	—	10	10	—
97 Apprentices (boot and shoe makers).....	39	39	—	39	39	—	2	2	—
98 Apprentices (carpenters and joiners).....	138	138	—	138	138	—	18	18	—
99 Apprentices (carriage and wagon makers).....	15	15	—	15	15	—	3	3	—
100 Apprentices (dressmakers).....	45	—	45	45	—	45	4	—	4
101 Apprentices (leather curriers, etc.).....	7	7	—	7	7	—	2	2	—
102 Apprentices (machinists).....	61	61	—	60	60	—	8	8	—
103 Apprentices (masons).....	25	25	—	25	25	—	1	1	—
104 Apprentices (milliners).....	5	—	5	5	—	5	1	—	1
105 Apprentices (painters).....	33	32	1	33	32	1	2	2	—
106 Apprentices (plumbers).....	15	15	—	15	15	—	1	1	—
107 Apprentices (printers).....	30	24	6	30	24	6	1	1	—
108 Apprentices (tailors).....	203	141	62	203	141	62	6	4	2
109 Apprentices (tinsmiths).....	28	28	—	27	27	—	—	—	—
110 Apprentices (not otherwise specified).....	692	664	28	676	649	27	47	47	—
111 Artificial flower makers.....	262	86	176	262	86	176	4	1	3
112 Bakers.....	5,950	5,851	99	5,876	5,782	94	97	91	6
113 Basket makers.....	433	334	99	332	320	12	13	11	2
114 Blacksmiths.....	5,416	5,414	2	5,361	5,359	2	364	363	1
115 Bleachers, dyers, and scourers.....	559	530	29	558	529	29	15	12	3
116 Bone and ivory workers.....	57	55	2	57	55	2	1	1	—
117 Bookbinders.....	340	309	31	337	306	31	9	6	3
118 Boot and shoe makers and repairers.....	11,541	11,280	261	10,444	10,186	258	379	351	28
119 Bottlers and mineral and soda water makers.....	375	326	49	375	326	49	9	9	—
120 Box makers (paper).....	301	173	128	300	172	128	26	7	19
121 Box makers (wood).....	393	377	16	369	353	16	18	13	5
122 Brass workers (not otherwise specified) (a).....	495	489	6	493	487	6	15	13	2
123 Brewers and maltsters (a).....	3,822	3,808	14	3,790	3,776	14	38	38	—
124 Brick and tile makers and terra cotta workers (a).....	8,455	8,440	15	7,813	7,798	15	96	94	2
125 Britannia workers.....	5	5	—	4	4	—	—	—	—
126 Broom and brush makers.....	297	271	26	295	269	26	16	14	2
127 Builders and contractors.....	434	433	1	408	407	1	13	13	—
128 Butchers.....	4,262	4,248	14	4,099	4,085	14	152	152	—
129 Butter and cheese makers.....	365	355	10	364	354	10	11	10	1
130 Button makers.....	57	35	22	57	35	22	2	2	—
131 Cabinet makers.....	2,935	2,935	—	2,930	2,930	—	34	34	—
132 Candle, soap, and tallow makers.....	161	149	12	159	147	12	3	2	1
133 Carpenters and joiners.....	17,260	17,240	20	17,112	17,101	11	1,066	1,066	—
134 Carpet makers (a).....	921	608	313	920	608	312	43	32	11
135 Carriage and wagon makers (not otherwise classified). (a)	887	884	3	885	882	3	24	24	—
136 Charcoal, coke, and lime burners.....	1,773	1,769	4	1,772	1,768	4	38	38	—
137 Chemical works employes (a).....	226	220	6	226	220	6	4	1	3
138 Clock and watch makers and repairers.....	661	615	46	647	601	46	22	16	6
139 Compositors (a).....	169	160	9	165	156	9	7	5	2
140 Confectioners.....	955	767	188	940	755	185	13	8	5
141 Coopers.....	2,377	2,371	6	2,365	2,359	6	105	105	—
142 Copper workers.....	176	176	—	175	175	—	2	2	—
143 Corset makers.....	76	19	57	76	19	57	9	2	7
144 Cotton mill operatives (a).....	25,702	10,657	15,045	25,644	10,634	15,010	974	381	593
145 Distillers and rectifiers (a).....	115	113	2	115	113	2	1	1	—
146 Door, sash, and blind makers (a).....	83	88	—	88	88	—	3	3	—
147 Dressmakers.....	4,207	199	4,008	4,111	189	3,922	332	1	291
148 Electroplaters.....	39	38	1	39	38	1	2	2	—
149 Electrotypers and stereotypers (a).....	11	11	—	11	11	—	1	1	—
150 Engravers.....	117	116	1	111	110	1	4	4	—
151 Fertilizer makers (a).....	29	29	—	12	12	—	1	1	—
152 Fish curers and packers (a).....	188	188	—	10	10	—	—	—	—
153 Gas works employes (a).....	143	143	—	143	143	—	5	5	—
154 Glass workers.....	1,723	1,681	42	1,723	1,681	42	28	26	2

a See explanatory notes in Table 2.

OCCUPATIONS.

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ENGAGED IN EACH SPECIFIED OCCUPATION, CLASSIFIED BY SEX, GENERAL NATIVITY, AND COLOR: 1890—Cont'd.

NATIVE WHITE—NATIVE PARENTS.			NATIVE WHITE—FOREIGN PARENTS.			FOREIGN WHITE.			COLORED. (b)			PERSONS OF NEGRO DESCENT.			
Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	
181	111	20	118	102	16	6,545	6,076	469	2,262	2,240	22	19	15	4	76
20	20		1	1		101	99	2	7	7		3	3		77
5	5		84	83	1	265	245	20	5	4	1	1	1		78
			3	3		112	109	3							79
10	10		2	2		128	127	1	8	8		1	1		80
125	125		9	7	2	509	419	90	88	81	7				81
2	2		1	1		4	4		2	2					82
10	10		6	6		440	430	10	71	71		1	1		83
29	29		3	3		598	597	1	100	100		34	34		84
84	29	5	76	55	21	1,104	922	182	69	66	3	3	1	2	85
811	807	4	200	200		19,091	19,061	30	2,658	2,656	2	67	67		86
2		2	2	1	1	31	29	2							87
13	13		47	47		381	381		2	2		1	1		88
9	7	2	4	4		59	43	16							89
						92	91	1	1	1		1	1		90
5	5		1	1		37	36	1	5	5					91
2	2		11	7	4	20	20		1	1		1	1		92
						582	349	233	5	5		1	1		93
4,282	3,196	1,086	4,172	2,504	1,668	224,213	185,385	38,828	10,374	9,632	742	1,289	904	385	94
1	1					250	250		2	2		2	2		95
5	5		5	5		44	44								96
			2	2		37	37								97
9	9		9	9		120	120								98
2	2		1	1		12	12								99
			4	2	4	41	5	41							100
			2	5		5	52								101
3	3		5	5		52	52		1	1					102
			1	1		24	24								103
			1		1	4		4							104
			2	2		31	30	1							105
			1	1		14	14								106
			1	1		29	23	6							107
1	1		5	3	2	197	137	60							108
						27	27		1	1					109
7	7		40	40		629	602	27	16	15	1	14	13	1	110
			4	1	3	258	85	173							111
33	29	4	64	62	2	5,779	5,091	688	74	69	5	17	12	5	112
7	5	2	6	6		310	300	10	101	14	87				113
282	281	1	82	82		4,997	4,996	1	55	55		33	33		114
3	3		12	9	3	543	517	26	1	1					115
			1	1		56	54	2							116
			9	6	3	328	300	28	3	3					117
265	265	2	114	83	26	10,065	9,835	230	1,097	1,094	3	29	29		118
2	2		7	7		366	317	49							119
3	1	2	26	7	19	274	165	109	1	1					120
1			15	12	3	351	340	11	24	24					121
8		1	14	13	1	478	474	4	2	2					122
34	34		30	30		3,752	3,738	14	32	32					123
			62	60	2	7,717	7,704	13	642	642		12	12		124
						4	4		1	1					125
9	8	1	7	6	1	279	255	24	2	2					126
6	6		7	7		395	394	1	26	26					127
73	73		79	79		3,947	3,933	14	163	163		12	12		128
2	2		9	8	1	353	344	9	1	1					129
2	2					55	33	22							130
18	18		16	16		2,896	2,896		5	5		1	1		131
			3	2	1	156	145	11	2	2		1	1		132
			293	293		16,046	16,035	11	148	148		47	47		133
773	773		7	5	2	877	576	301	1		1				134
55	57	9													
11	11		13	13		861	858	3	2	2		2	2		135
34	34		4	4		1,734	1,730	4	1	1					136
			4	1	3	222	219	3							137
11	9	2	11	7	4	625	585	40	14	14		2	2		138
2	2		5	3	2	158	151	7	4	4		3	3		139
			13	8	5	927	747	180	15	12	3	5	2	3	140
79	79		26	26		2,260	2,254	6	12	12		8	8		141
			2	2		173	173		1	1		1	1		142
			9	2	7	67	17	50							143
109	44	65	865	337	528	24,670	10,253	14,417	58	23	35	58	23	35	144
			1	1		114	112	2							145
			3	3		85	85								146
133		133	159	1	158	8,819	188	3,631	86	10	86	25		25	147
			2	2		37	36	1							148
			1	1		10	10								149
			4	4		107	106	1	6	6					150
			1	1		11	11		17	17					151
						10	10		178	178					152
8	3		2	2		138	138								153
			28	26	2	1,695	1,655	40							154

b Persons of negro descent, Chinese, Japanese, and civilized Indians.

TABLE 16.—TOTAL PERSONS 10 YEARS OF AGE AND OVER IN THE UNITED STATES WHO CAN NOT SPEAK ENGLISH

OCCUPATIONS.	AGGREGATE.			WHITE.			NATIVE WHITE.		
	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
Manufacturing and mechanical industries—Cont'd.									
155 Glove makers.....	109	63	46	107	62	45	1	1	.....
156 Gold and silver workers.....	473	441	32	466	434	32	29	27	2
157 Gunsmiths, locksmiths, and bell hangers.....	768	767	1	765	764	1	11	11	.....
158 Hair workers.....	87	56	31	87	56	31	1	1	.....
159 Harness and saddle makers and repairers.....	782	774	8	775	767	8	42	41	1
160 Hat and cap makers.....	1,609	1,457	152	1,605	1,454	151	26	18	8
161 Hosiery and knitting mill operatives (a).....	819	206	613	818	206	612	41	10	31
162 Iron and steel workers (a).....	8,840	8,785	55	8,818	8,763	55	179	177	2
163 Lace and embroidery makers.....	242	122	120	237	122	115	10	2	8
164 Lead and zinc workers.....	387	385	2	385	383	2	5	4	1
165 Leather curriers, dressers, finishers, and tanners.....	2,919	2,908	11	2,884	2,873	11	29	29	.....
166 Machinists.....	3,272	3,267	5	3,240	3,235	5	85	84	1
167 Manufacturers and officials of manufacturing companies.....	1,144	1,139	14	1,112	1,098	14	42	42	.....
168 Marble and stone cutters.....	3,118	3,113	5	3,107	3,102	5	69	69	.....
169 Masons (brick and stone).....	7,973	7,972	1	7,924	7,923	1	386	386	.....
170 Meat and fruit packers, canners, and preservers (a).....	737	629	108	310	202	108	7	4	3
171 Mechanics (not otherwise specified).....	167	166	1	168	165	1	10	10	.....
172 Metal workers (not otherwise specified).....	1,119	1,094	25	1,116	1,091	25	65	61	4
173 Mill and factory operatives (not specified) (a).....	7,098	3,928	3,170	7,040	3,877	3,163	257	138	119
174 Millers (flour and grist).....	805	804	1	803	802	1	122	122	.....
175 Milliners.....	389	9	380	378	9	369	122	2	120
176 Model and pattern makers.....	112	112	.....	111	111	.....	2	2	.....
177 Molders.....	1,711	1,711	.....	1,711	1,711	.....	43	43	.....
178 Musical instrument makers (not otherwise specified) (a).....	36	36	.....	36	36	.....	1	1	.....
179 Nail and tack makers (a).....	87	77	10	87	77	10	22	15	7
180 Oil well employes.....	17	17	.....	17	17	.....	3	3	.....
181 Oil works employes.....	99	99	.....	99	99	.....	2	2	.....
182 Painters, glaziers, and varnishers.....	4,666	4,650	16	4,638	4,622	16	158	158	.....
183 Paper hangers.....	99	99	.....	97	97	.....	4	4	.....
184 Paper mill operatives.....	999	703	296	975	679	296	33	23	10
185 Photographers.....	124	114	10	122	112	10	4	4	.....
186 Piano and organ makers and tuners (a).....	656	652	4	651	647	4	11	11	.....
187 Plasterers.....	701	701	.....	691	691	.....	46	46	.....
188 Plumbers and gas and steam fitters.....	305	304	1	304	303	1	15	15	.....
189 Potters.....	385	367	18	374	363	11	4	4	.....
190 Powder and cartridge makers.....	32	30	2	16	14	2	.....	.....	.....
191 Printers, lithographers, and pressmen (a).....	597	581	16	582	566	16	40	37	3
192 Print works operatives (a).....	193	173	20	193	173	20	3	2	1
193 Publishers of books, maps, and newspapers.....	15	14	1	15	14	1	1	1	.....
194 Roofers and slaters.....	176	176	.....	172	172	.....	8	8	.....
195 Rope and cordage makers.....	436	343	93	295	202	93	9	5	4
196 Rubber factory operatives.....	313	247	66	310	244	66	3	3	.....
197 Sail, awning, and tent makers.....	28	22	6	27	21	6	1	.....	1
198 Salt works employes.....	234	228	6	232	226	6	1	1	.....
199 Saw and planing mill employes (a).....	8,560	8,549	11	8,231	8,220	11	164	164	.....
200 Seamstresses (a).....	4,601	689	3,912	4,277	668	3,609	799	4	795
201 Sewing machine makers (not otherwise classified) (a).....	32	32	.....	32	32	.....	1	1	.....
202 Sewing machine operators (a).....	610	392	218	519	306	213	2	.....	2
203 Ship and boat builders.....	324	324	.....	303	303	.....	9	9	.....
204 Shirt, collar, and cuff makers (a).....	1,407	958	449	1,003	554	449	7	2	5
205 Silk mill operatives (a).....	2,460	1,835	625	2,458	1,833	625	32	10	22
206 Starch makers.....	75	39	36	54	39	15	.....	.....	.....
207 Steam boiler makers.....	264	264	.....	264	264	.....	7	7	.....
208 Stove, furnace, and grate makers (a).....	268	268	.....	262	262	.....	16	16	.....
209 Straw workers.....	16	9	7	16	9	7	1	1	.....
210 Sugar makers and refiners.....	589	588	1	581	580	1	11	11	.....
211 Tailors and tailoresses (a).....	29,375	24,098	5,277	27,191	21,992	5,199	459	178	281
212 Tanners and tinware makers.....	1,565	1,543	22	1,519	1,497	22	51	51	.....
213 Tobacco and cigar factory operatives.....	17,171	13,940	3,231	14,476	11,318	3,158	441	265	176
214 Tool and cutlery makers (not otherwise classified) (a).....	583	569	14	579	565	14	13	9	4
215 Trunk, valise, leather-case, and pocket-book makers.....	301	288	13	299	286	13	11	10	1
216 Umbrella and parasol makers.....	72	65	7	72	65	7	2	1	1
217 Upholsterers.....	634	620	14	628	614	14	14	11	3
218 Well borers.....	25	25	.....	25	25	.....	5	5	.....
219 Wheelwrights.....	298	298	.....	298	298	.....	23	23	.....
220 Whitewashers.....	156	156	.....	156	156	.....	.....	.....	.....
221 Wire workers.....	924	911	13	924	911	13	9	9	.....
222 Wood workers (not otherwise specified).....	3,318	3,182	136	3,232	3,097	135	71	63	8
223 Woolen mill operatives (a).....	3,868	2,306	1,562	3,732	2,170	1,562	168	78	90
224 Other persons in manufacturing and mechanical industries.....	4,266	3,737	529	4,042	3,520	522	119	85	34

a See explanatory notes in Table 2.

OCCUPATIONS.

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ENGAGED IN EACH SPECIFIED OCCUPATION, CLASSIFIED BY SEX, GENERAL NATIVITY, AND COLOR: 1890—Cont'd.

NATIVE WHITE—NATIVE PARENTS.			NATIVE WHITE—FOREIGN PARENTS.			FOREIGN WHITE.			COLORED. (b)			PERSONS OF NEGRO DESCENT.		
Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.
			1	1		106	61	45	2	1	1			
17	16	1	12	11	1	437	407	30	7	7				
4	4		7	7		754	753	1	3	3		1	1	
			1	1		86	55	31						
25	25		17	16	1	733	726	7	7	7		1	1	
10	8	2	16	10	6	1,579	1,436	143	4	3	1	2	1	1
7	3	4	34	7	27	777	196	581	1		1	1		1
128	128		51	49	2	8,639	8,586	53	22	22		9	9	
3	1	2	7	1	6	227	120	107	5		5			
2	2		3	2	1	380	379	1	2	2				
12	12		17	17		2,855	2,844	11	35	35		1	1	
21	21		64	63	1	3,155	3,151	4	32	32				
31	31		11	11		1,070	1,056	14	32	32		4	4	
31	31		38	38		3,038	3,033	5	11	11		3	3	
317	317		69	69		7,538	7,537	1	49	49		31	31	
2	2		5	2	3	303	198	105	427	427				
6	6		4	4		156	155	1	1	1		1	1	
52	52		13	9	4	1,051	1,030	21	3	3		1	1	
74	55	19	183	83	100	6,783	3,739	3,044	58	51	7	20	15	5
111	111		11	11		681	680	1	2	2		1	1	
99	1	98	23	1	22	256	7	249	11		11	8		8
			2	2		109	109		1	1				
10	10		33	33		1,668	1,668							
			1	1		35	35							
3	3		19	12	7	65	62	3						
3	3		2	2		14	14							
			97	97		97	97							
68	68		90	90		4,480	4,464	16	28	28		5	5	
2	2		2	2		93	93		2	2				
16	14	2	17	9	8	942	656	286	24	24				
3	3		1	1		118	108	10	2	2				
4	4		7	7		640	636	4	5	5				
40	40		6	6		645	645		10	10		8	8	
3	3		12	12		289	288	1	1	1		1	1	
2	2		2	2		370	359	11	11	4	7			
						16	14	2	16	16				
11	11		29	26	3	542	529	13	15	15				
			3	2	1	190	171	19						
						14	14							
1	7	1	1	1		164	161		4	4		4	4	
3	1	2	6	4	2	286	197	89	141	141		8	8	
1	1		2	2		307	241	66	3	3				
			1	1		26	21	5	1	1				
			1	1		231	225	6	2	2				
93	93		71	71		8,067	8,056	11	329	329		19	19	
496	2	494	303	2	301	3,478	664	2,814	324	21	303	223		223
1	1					31	31							
			2	2		517	306	211	91	86	5			
4	4		5	5		294	294		21	21		1	1	
2	1	1	5	1	4	996	552	444	404	404		1	1	
14	2	12	18	8	10	2,426	1,823	603	2	2		1	1	
						54	39	15	21		21			
2	2		5	5		257	257							
11	11		5	5		246	246		6	6				
			1	1		15	8	7						
11	11					570	569	1	8	8		7	7	
161	58	103	298	120	178	26,732	21,814	4,918	2,184	2,106	78	24	15	9
18	18		33	33		1,468	1,446	22	46	46		4	4	
239	142	97	202	123	79	14,035	11,053	2,982	2,695	2,622	73	615	548	67
1	1		12	8	4	566	556	10	4	4				
1		1	10	10		288	276	12	2	2				
			2	1	1	70	64	6						
4	2	2	10	9	1	614	603	11	6	6		2	2	
1	1		4	4		20	20							
21	21		2	2		275	275							
						156	156							
3	8		6	6		915	902	13	86	85		3	3	
14	13	2	57	51	6	3,161	3,034	127	136	136		3	3	
36	23	13	132	55	77	3,564	2,092	1,472	224	217	7	4	2	2
53	45	8	66	40	26	3,923	3,435	488						

b Persons of negro descent, Chinese, Japanese, and civilized Indians.



DEPARTMENT OF THE INTERIOR,
CENSUS OFFICE.

ROBERT P. PORTER, Superintendent.

REPORT
ON
TRANSPORTATION BUSINESS
IN
THE UNITED STATES

AT THE
ELEVENTH CENSUS: 1890.

THE GREAT LAKES.

HENRY C. ADAMS,
SPECIAL AGENT.



WASHINGTON, D. C.:
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LETTER OF TRANSMITTAL.

DEPARTMENT OF THE INTERIOR,
CENSUS OFFICE,

WASHINGTON, D. C., November 15, 1892.

SIR:

The statistics of transportation which are given in the present report are for the lacustrine system, embracing Lakes Superior, Michigan, Huron, St. Clair, Erie, Ontario, and Champlain and the St. Lawrence river, comprehensively known as the Great Lakes. The report is for the year ended December 31, 1889. As I stated in my letter of transmittal accompanying the report of Transportation on the Rivers of the Mississippi Valley, the reasons for reporting on the year mentioned are, that it was found impossible to secure returns for the fiscal year ended June 30, 1890, no such period of accounting being followed in the principal centers of transportation, while in such important localities as the Great Lakes and the upper waters of the Mississippi valley the period of accounting is the period of navigability, bounded by the formation and the breaking up of the ice, and to have waited until the close of the navigation season of 1890 would too seriously have delayed the work of securing records.

The statistics given are far too extensive to admit of anything except a few general quotations. Among these may be noticed, for example, that the fleet of the section under consideration numbered 2,784 craft, having a tonnage of 926,355 tons and an estimated commercial value of \$48,941,474. Another such general quotation shows that the freight movement by that portion of the fleet engaged in traffic operations amounted to 53,424,432 tons, and another that the number of employes constituting the ordinary crews of all the operating vessels ran up to 22,934 persons, to whom there was paid in wages the sum of \$8,140,430. It may be quoted also, from the comparative statistics furnished, that in 1880 the registered fleet of the Great Lakes numbered 2,550 craft, with a tonnage of 557,589 tons, from which figures it will be seen that while the increase in equipment for 1889 over 1880 was only 234 in number, the increase of tonnage was 368,766 tons, indicating a very marked growth in the use of large tonnage vessels. It will be also interesting to note that while the congressional appropriations made for the improvement of the harbors and channels of navigation on the Great Lakes up to and including the act of September, 1890, amounted to \$42,036,327, the earnings of the commercial fleet operated during the single season for which report is made amounted to \$35,636,163, out of which \$28,033,651 was distributed in the form of expenses. Omission should not be made either of the fact that a very interesting chapter of the report covers the history and operations of those 3 great artificial passageways, the St. Marys Falls canal, the Detroit river and canal, and the Welland canal.

The present report has been prepared by Mr. Thomas J. Vivian, in charge of statistics of transportation, under the general direction of Mr. Henry C. Adams, special agent, and I take pleasure in directing your attention to the intelligent manner in which the explanatory text has been written and the statistics tabulated.

Very respectfully,

ROBERT P. PORTER,
Superintendent of Census.

The SECRETARY OF THE INTERIOR.

INTRODUCTION.

BY HENRY C. ADAMS.

The sources from which the statistics of the following report have been obtained are the returns of customs officers of receipts and shipments; reports from leading shippers at ports having no customs office; reports from the important transportation lines operating on the Great Lakes and their adjacent waters, covering that portion of the traffic not included in port manifests; reports of boards of trade in all the important cities; schedules from individual as well as corporate owners, together with special contributions from the United States Engineer Corps, the Treasury Bureau of Statistics, Coast and Geodetic Survey, Hydrographic Office, and other branches of the general government. These different sources of information are mentioned in order to show that every effort has been made to secure trustworthy and accurate figures and to check and correct the material so secured.

The preliminary work in these various directions was largely done by Mr. Charles H. Keep, acting as special agent, and was done in a thoroughly efficient manner.

The compiling of these statistics and of putting them into proper tabulated shape for publication, as well as the preparation of the text and text tables, is the work of Mr. Thomas J. Vivian, in charge of statistics of transportation, both branches having been done with judgment and completeness.

The facts and figures will speak for themselves, but it is interesting to note two great points of interest that are found in the accompanying report: the simplicity which is the chief characteristic of the lake commerce, and the radical changes which have taken place in the floating equipment during the past 10 years. As to the first point, it will be found that the present exhibit shows that the 3 commodities, coal, iron ore, and lumber, comprise 75 per cent of the total cargo-tonnage of the lakes, while, if to these commodities there be added wheat and mill products, there would remain unallotted scarcely 10 per cent of total traffic. As to the second point, it will be found from the figures presented that sailing vessels are fast giving place to vessels propelled by steam both for actual freightage and for towing; that the steamers which have been built during the past few years are of a constantly increasing size, and that steel is now more generally used as a material of construction for large vessels than iron, composite, or wood.

It will be eminently proper, and indeed almost necessary, to repeat here the substance of a remark made in the introduction to the report on the Statistics of Transportation on the Rivers of the Mississippi Valley. It is in relation to the importance of the commercial facts pertaining to inland navigation, and the reasons which were stated for this importance are that the statistics are needed for a complete exhibit of the nation's carrying trade and for the accurate measurement of the business of transportation; that they show, taken in connection with railway statistics, the relative use of inland waters and railways in transporting passengers and freight, and that they bear directly on the disputed question of the extent to which railway rates are affected by the competition of these waterways.

TRANSPORTATION ON THE GREAT LAKES.

[WITH AN ADDENDUM REPORT ON LAKE CHAMPLAIN.]

TRANSPORTATION ON THE GREAT LAKES.

[WITH AN ADDENDUM, REPORT ON LAKE CHAMPLAIN.]

BY THOMAS J. VIVIAN.

The Great Lakes, from which statistics of transportation are presented in the accompanying report, not only constitute one of the grandest geographical features of the North American continent, but they also afford the largest system of deep water inland navigation on the globe, containing as they do more than one-half its area of fresh water. Their combined area is 95,060 square miles, Lake Superior having 31,200, Lake Michigan 22,450, and Lakes Huron and St. Clair 24,210 square miles of surface. In the order of their topographical relationship, and considering them as vast expansions of the upper waters of the St. Lawrence river, they lie, beginning at the northwest, in the following order: Superior, Michigan, Huron, St. Clair, Erie, and Ontario. Lying in a general direction east and west, between the 41st and 47th parallels, the system extends from tidewater on the St. Lawrence and (including the Erie canal) from tidewater at New York 1,400 miles into the heart of the continent, the head of Lake Superior and the St. Lawrence tidewater being on the northernmost parallel, with Chicago and New York on the southern. The western extremity of the system is 1,700 miles only from the waters of the Pacific, and for one-half the distance between the two oceans these waters divide the Dominion from the Great Republic. The range of this fresh water system, it will be observed, is entirely within the limits of the north temperate zone, on the line on which population most freely moves westward, where final settlement is most compact, and where the climatic conditions insure the largest returns to capital and labor.

LEVELS AND WATERSHEDS.

Erie, Huron, and Michigan are nearly on the same level, the extreme difference between the first and the last named being only about 9 feet, while Superior is only 20 feet higher than Michigan, or 29 feet above Erie. In referring to the data of the levels of the Great Lakes in the chapter entitled "The physical features of the United States," the compiler of the "Statistical Atlas" for the Ninth Census says:

The divide between the Great Lakes and the waters flowing into the Mississippi and its tributaries is everywhere low, and at the lower end of Lake Michigan is so much so that only a small amount of excavation has been required to cause the waters which formerly flowed into the lake to run toward the Gulf of Mexico (via the Mississippi river).

The only great change of level between any two of the lakes is that which exists between Lake Ontario and Lake Erie, the former being 326 feet lower than the latter, about half the descent from one to the other being made in that single plunge known as the Falls of Niagara.

To what has been said may be added the geographical fact that 150 miles northwest of Duluth are the fountains of 3 of the greatest drainage systems of the continent, if not of the world, the physical conditions being such as to send flowing water northward into the ocean through Hudson bay, southward to the ocean through the Mississippi valley and the Gulf of Mexico, and eastward to the ocean through the lakes and St. Lawrence river.

The north drainage system has no traffic practicability; the commercial importance of that flowing southward is treated of in the chapter of this volume entitled "Transportation on the rivers of the Mississippi valley"; while the present chapter will show both the practicability and importance of the east drainage system.

Most of the preceding facts and figures, and many others that have not been referred to, will be found conveniently tabulated in the following statement:

LAKES.	Area of water surface (square miles).	Area of watershed (square miles).	Aggregate area of basin (square miles).	Elevation of mean surface above surface level (feet).	Maximum depth (feet).	Deepest point below surface level (feet).	Mean annual rain and snow fall (inches).	Average discharge at outlets (cubic feet).
Total	95,060	168,700	263,760	<i>a</i> 516.8	<i>a</i> 755	<i>a</i> 339	31	<i>a</i> 219,000
Lake Ontario	7,240	21,600	28,840	246.6	739	491	34	300,000
Lake Erie	9,960	22,700	32,660	572.9	210	.....	34	265,000
Lakes Huron and St. Clair...	24,210	35,100	59,310	581.3	750	169	32	225,000
Lake Michigan	22,450	37,700	60,150	581.3	870	289	30	.....
Lake Superior	31,200	51,600	82,800	601.8	1,008	406	29	86,000

a Average.

IMPORTANCE OF SITUATION.

Into the causes of the commercial importance of the Great Lakes it is scarcely the province of this article to enter. They constitute an accepted fact to every one at all acquainted with the geography and resources of this country, while the accompanying map will serve to indicate the extraordinary extent, productive power, and trade possibilities of the territory which is tributary to this greatest of all lacustrine systems. Debouching on the great lakes lie the states of Minnesota, Wisconsin, Illinois, Indiana, Michigan, Ohio, Pennsylvania, and New York, 8 empires embracing 416,360 square miles, which according to the present census have a population of 26,029,533; which contain the commercial metropoli of the land; whose products and demands are almost illimitable, and whose wealth is the moving financial factor of the nation. Of course there is no justifiable inference that all this population, all this producing power, all these needs, financial dictatorship, and commercial weight are tributary to the traffic of the lakes, but the fact remains that these states reach to the water's edge of either Superior, Michigan, Huron, Erie, or Ontario, and that while they are not tributary to the lakes they certainly contribute to the volume of their trade and to their importance as water ways. While this report, too, deals only with the American commerce of the lakes, it must not be forgotten that with but few exceptions they are bounded on the north by the dominion of Canada, and that the traffic of the ports along the northern shores is steadily growing. It will not be inappropriate to say here that the paramount question relating to the lake marine to-day is the construction of the so-called "20-foot channel"; for, while the great lakes are deep enough for any fleet, the connecting rivers have shoal places which seriously limit the draft of vessels passing through them. The "20-foot channel" contemplates the provision of a continuous passage of that depth through the connecting waters between Chicago, Duluth, and Buffalo, the cost of which work was estimated by General O. M. Poe to be \$2,379,058, these figures of course being outside of the then authorized improvements.

EARLY RECORDS.

It is a matter of history that in 1534 Jacques Cartier, a French navigator, acting under a commission from Francis I, sailed through the straits of Belle Isle and up the St. Lawrence; discovered Canada; landed at a point where is now situated Montreal, and took possession of this new territory in the name of the king of France. From 1603 to 1615 Samuel De Champlain, another French voyager, extended these discoveries and became the first governor of the French settlements in lower Canada. He explored Lake Champlain, gave to it his name, commenced a settlement at Quebec, and extended his explorations as far west as Lake Huron. Up to 1678 a regular sailing vessel had not been placed on the lakes, but in November of that year La Salle and Father Hennepin set sail on a schooner of 10 tons burden, which they had launched at a point near the present city of Kingston, Canada, out on Lake Ontario, and as they were unable to navigate beyond the mouth of the Niagara river, they continued their journey by land. In May, 1679, they launched the Griffin, the first sailing vessel to navigate the upper lakes, and in September, on their voyage westward, reached Green bay. The Griffin, laden with furs, was lost on the return trip, La Salle and Father Hennepin having continued their exploration to the Illinois and Mississippi rivers. From 1700 until 1756 the construction and navigation of sailing vessels was largely, if not entirely, confined to Lake Ontario.

In 1759 the English commenced to build and navigate sailing vessels upon lakes Erie and Ontario. Two sloops were launched at Oswego in 1760 named the Oswego and the Ontario, and about the same time a sloop and schooner, each of 60 tons burden, were built, while at the conquest of Canada in 1763 the English fleet was increased by the addition of the French merchant and whale vessels which then passed into the victor's possession.

Up to the time of the American Revolution there was little increase in the lake shipping, but from that time the commerce of Lake Ontario increased, and up to 1800 it exceeded the commerce of all the other lakes, although the first American steamer upon Lake Erie was built at Erie, Pennsylvania, in 1797.

Before entering upon a consideration of the lake traffic of to-day it will be well to look back for a short time to the beginnings of the trade and at the initial steps in the development of the resources of the circumjacent territory.

One of the chapters of the volume on transportation issued by the Tenth Census was entitled "History of Steam Navigation in the United States", and from that portion which treats of the Lakes the following extracts are drawn:

Previous to the war of 1812 quite a flourishing commerce was carried on upon Lake Ontario by sailing craft, but it was not till 1816 that the side-wheel steamer Ontario was built at Sacketts Harbor, going into service in April of the following year. This was the first steamer on the American side, the Frontenac coming out at about the same time on the Canadian side. The Ontario measured 231.57 tons, and had beam engines, 34-inch cylinders, of 4-foot stroke. She was broken up in 1832. The second steamer * * * was the Walk-in-the-water, which was launched at Black Rock, New York, in 1818. She was of 342 tons burden, and had low pressure engines. She arrived at Detroit August 22, 1818, on her first trip, and afterward traded as far as Mackinaw, Michigan, and was finally wrecked on the night of November 1, 1818, at Buffalo, New York. The Sophia, of 49.70 tons, was also built at Sacketts Harbor in 1818, so that up to 1820 there had been built only 4 steamers on the Lakes, including 1 steamer of 208.57 tons, built on Lake Champlain, as against 71, measuring 14,207.53 tons, on western rivers [those of the Mississippi valley], and 52, measuring 10,564.43 tons on the Atlantic coast. Within the next decade there had been built 8 steamers on the Lakes. The Superior, measuring 346.38 tons, came out at Buffalo in 1822; the Martha Ogden, 48.63 tons, at Sacketts Harbor in the following year, and the Pioneer, measuring 124.67 tons, at Buffalo in 1825, followed in 1826 by the Niagara, of 156.92 tons, the Henry Clay, of 301 tons, and at Cleveland by the Enterprise, measuring 219 tons, the William Penn, at Erie, measuring 214.71 tons, and 1 small craft of 93.82 tons, making 1,505.13 for the decade. * * * The steamer Sheldon Thompson, of 241 tons, built in 1829, made the first trip from Lake Erie to Chicago in 1832. She took up soldiers for the Black Hawk war. * * * The first steamer that arrived at Saginaw was the Governor Marcy, of 161 tons, commanded by Captain R. G. McKenzie. She went upon a regular route to that port about the year 1837. * * *

SHIPBUILDING IN THE FORTIES.

The first propeller built on the Lakes was the Vandalia, a sloop-rigged craft of about 138 tons. She was launched at Oswego in 1841. She was followed by the Oswego, of 150 tons, in 1842. In 1843 there were 7 propellers built at various points, as follows: The Hercules, 272 tons, at Buffalo; the Samson, 250 tons, at Perrysburg; the Emigrant, 275 tons, at Cleveland; the Racine, 150 tons, at Oswego; the New York, 150 tons, at Oswego; the Chicago, 150 tons, at Oswego; the Independence, 262 tons, at Chicago. In 1844 the Porter, of 310 tons, was built at Buffalo, and in 1845 the Syracuse came out at Oswego; the Princeton at Perrysburg, and the Phoenix at Cleveland. * * * The service of what is now known as the "river tugs" was inaugurated in 1845 by the side-wheel steamer Romeo, of 180 tons. She was followed by the Tecumseh, the Little Erie, the Telegraph No. 2, and the propeller Odd Fellow, in 1848. This service is now performed by a class of powerful tugs, that are used to tow sailing vessels through Detroit river, and for wrecking purposes. * * * Up to 1850 there had been built on the Lakes 50 propellers measuring 16,427 tons. * * * In 1855 the steam inspection service reported the number of steamers on the northern lakes as follows: licensed steamers, 128, measuring 68,089 tons, and unlicensed steamers, 115, measuring 21,252 tons. The next authentic statement of this tonnage was by the register of the Treasury in 1870, when 642 steamers, measuring 142,973.09 tons, were reported.

The reader who is curious to closely follow the growth of the lake fleet after the last date given in the preceding review up to the present time can do so without delay by referring to Tables 24 to 32 inclusive, or by turning to that part of this text wherein the subject is treated of under the head of "Comparative statistics."

PLAN OF THE TABLES.

For the presentation of the statistical results of the investigation by the Eleventh Census into the industry of Transportation on the Great Lakes and St. Lawrence river 33 tables have been prepared, their number and titles being as follows:

Equipment, occupation, and construction:

- Table 1.—Equipment of fleets in general.
- Table 2.—Equipment of fleets, by classes.
- Table 3.—Percentages of tonnage and valuation.
- Table 4.—Occupation, by class groups.
- Table 5.—Construction, by localities.
- Table 6.—Construction, by materials.

Traffic operations:

- Table 7.—Freight movement in general, by lakes.
- Table 8.—Freight movement in general, by principal ports.
- Table 9.—Freight movement in general (summarized).
- Table 10.—Freight receipts, by extended list of commodities.
- Table 11.—Freight shipments, by extended list of commodities.
- Table 12.—Freight movement of combined receipts and shipments, by extended list of commodities.
- Table 13.—Total freight movement, by extended list of commodities.
- Table 14.—Freight movement of unclassified commodities (A).
- Table 15.—Freight movement of unclassified commodities (B).
- Table 16.—Freight values.
- Table 17.—Freight movement, by cargo tonnage.
- Table 18.—Passenger traffic.

Earnings and expense accounts:

- Table 19.—Financial account in general.
- Table 20.—Expense account in detail.
- Table 21.—Employés and wages, by ports.
- Table 22.—Employés and wages, by lake totals.
- Table 23.—Fuel account.

Comparative statistics:

- Table 24.—Steamers, by classes, in 1880 and 1889.
- Table 25.—Expense accounts in 1880 and 1889.
- Table 26.—Crews and wages in 1880 and 1889.
- Table 27.—Traffic in 1880 and 1889.
- Table 28.—Fleets for the 10 years, 1880–1889.
- Table 29.—Vessel tonnages for the 10 years, 1880–1889.
- Table 30.—Tonnage fluctuations for the 10 years, 1880–1889.
- Table 31.—Ship building for the 10 years, 1880–1889 (general).
- Table 32.—Ship building for the 10 years, 1880–1889 (steamers).

Congressional appropriations:

- Table 33.—Appropriations for lakes, by detailed localities.

While such a list as the preceding is useful to show at a glance the scheme on which the tabulation of the statistics has been carried out, it sometimes fails to show explicitly what a table contains, because of the necessity for condensation of titles, and in order to more clearly indicate the "Plan of the tables" the following synopsis is printed:

EQUIPMENT.

Table 1, "Equipment of fleets in general", shows the number, tonnage, and value of all steamers, sailing vessels, and unrigged craft, of over 5 tons burden, owned on the Great Lakes and St. Lawrence river in 1889, with separate entries by ports, grouped by lakes.

Table 2, entitled "Equipment of fleets, by classes", divides the entries of Table 1, separating the total number, tonnage, and value of all steamers, sailing vessels, and unrigged craft into classes, and retaining the separate entries by ports and the lake groups. The steamers are divided into 5 classes, namely, side-wheel passenger boats, propellers carrying both passengers and freight, propellers carrying freight only, tugs, and all other classes, while the sailing and unrigged vessels are divided into 3 classes, schooners, lake barges, and all other classes. By this allotment the number, tonnage, and value of each class of craft operating on the Great Lakes and St. Lawrence river may be readily seen.

OCCUPATION.

Table 3, entitled "Percentages of tonnage and valuation", gives the number, gross and net tonnage, estimated carrying capacity, commercial valuation, and value per gross ton of all vessels owned on the Great Lakes and St. Lawrence river, the great difference between this and the preceding table being that there are no entries by ports, that each lake fleet is subdivided into 17 classes of occupation, and that the percentage of both tonnage and valuation of each class to the lake totals are worked out.

Table 4, "Occupation, by class groups", gives the number, gross and net tonnage, estimated carrying capacity, commercial value, and value per gross ton of each of the 17 classes of vessels on each of the Great Lakes and St. Lawrence river, the headings in this case being the class of craft, and the entries being the respective lake totals of each class.

CONSTRUCTION.

There are 2 construction tables. The first, Table 5, "Construction, by localities", gives the number, tonnage, value, average value per ton, and average tonnage according to material of construction, of all vessels documented in the ports of the Great Lakes and St. Lawrence river, given by separate entries for each port.

The second construction table, Table 6, "Construction, by materials", gives the number, tonnage, value, average value per ton, and average tonnage of the same craft, but grouped according to material of construction, in contradistinction to the preceding table, in which the grouping is done by lakes.

TRAFFIC.

The statistics of traffic are presented in 12 tables, numbered consecutively from 7 to 18, inclusive. The first, Table 7, "Freight movement in general, by lakes", contains the receipts, shipments, total movement, percentage of traffic and commodity, excess of receipts over shipments, and excess of shipments over receipts of all freight moved on the Great Lakes and St. Lawrence river, dividing the commodities into the 4 following comprehensive classes:

- Class I.—Products of agriculture.
- Class II.—Products of mines and quarries.
- Class III.—Other products (such as animal products and lumber).
- Class IV.—Manufactures, miscellaneous merchandise, and other commodities.

This table is expanded into 6 subsidiary tables giving the receipts, shipments, and total movement of these classes of commodities, by lakes, together with the same calculations of percentages that are worked out in the table of totals.

Table 8, "Freight movement in general, by principal ports", follows the same plan of presenting the receipts, shipments, and total movement of all products, together with the percentage of traffic and commodity, except that it gives these figures for the 31 principal ports, with the smaller trading points presented together under the head of "All other ports", and a separate division or group being made for each of the 13 commodities embraced in the 4 comprehensive classes of products referred to in the preceding paragraph.

The third traffic table, Table 9, is a summarized statement of the freight movement, receipts, shipments, and total tonnage on the Great Lakes and St. Lawrence river entered up for all ports in the order of their traffic importance.

Table 10, entitled "Freight receipts, by extended list of commodities", is a statement of the receipts, by ports grouped according to their respective lakes, of a still more extended list of the articles embraced under the comprehensive heads of "Products of agriculture", "Products of mines and quarries", "Other products", and "Manufactures", the detailed list of commodities being increased from 13 to 26.

Table 11, "Freight shipments, by extended list of commodities", is a statement of the port shipments of all commodities similarly arranged with the preceding table of receipts.

Table 12, "Freight movement of combined receipts and shipments, by extended list of commodities", is a statement of both the port receipts and shipments of the articles given in Tables 10 and 11.

Table 13, "Total freight movement, by extended list of commodities", gives the receipts and shipments of all commodities by lake totals only, the detailed entries for the ports being omitted.

Table 14, "Freight movement of unclassified commodities (A)", gives the receipts and shipments by ports of those commodities for which no weight was furnished and which do not appear in the other tables, such commodities, for instance, as unweighed packages, cases, and parcels.

Table 15, "Freight movement of unclassified commodities (B)", is a description and an estimated weight in pounds of each unit of measurement mentioned in Table 14, worked out to an estimated result in tons.

Table 16. In this table, entitled "Freight values", an estimated value per ton is put on all the commodities moved, and the result in total values is worked out.

In the preceding tables of freight movement the volume of traffic was the aggregate of receipts and shipments for all ports, but in Table 17, entitled "Freight movement, by cargo tonnage", an aggregation is made of the single item of receipts or of shipments, according to whichever happened to be the larger.

Table 18. The passenger movement recorded in this table is confined to that on board steamers, is entered for the different ports for which a passenger traffic was reported, and is classified as belonging to regular passenger lines, to excursion boats, and to ferry service.

EARNINGS AND EXPENSE ACCOUNTS.

Table 19, entitled "Financial account in general", is almost a balance sheet of the industry of Water Transportation on the Great Lakes, showing, as it does, the gross earnings, expenses, and remaining net earnings of the lake fleet reporting financial operations, the entries being made for the ports of registration, with totals for those lakes to which the ports belong.

In making out Table 20, entitled "Expense account in detail", the expenses of reporting vessels, following the same division of ports of registration and lakes, are divided into the various items of port charges, wages, provisions, current repairs, fuel (for the steamers), other running expenses, commissions, insurance, taxes, and office expenses, the 10 principal items which constitute the shore and running expenses.

EMPLOYÉS.

A still further subdivision of expenses is made in Table 21, "Employés and wages, by ports". Here, however, one item only is selected, that being the interesting one of wages, and the average wages paid in each port to all grades of employés from captain to cook and from first engineer to ship's boy is given, together with the number of persons making up the ordinary crews required as the complement of all reporting craft, the number of persons receiving employment during the year in the operation of these vessels, and the average wages paid to each grade of employés in the respective ports.

Table 22, "Employés and wages, by lake totals", is really a résumé of Table 21, taking up, as it does, the total number of employés of each grade and the total monthly wages paid on the different lakes for such vessels as reported on wages and crews.

FUEL ACCOUNT.

Table 23, entitled "Fuel account", applies, of course, only to steamers. These steamers, however, are grouped under the class heads of (1) passenger, passenger and freight, and freight steamers; (2) ferryboats; (3) towboats, and (4) miscellaneous. For each of these classes and for each port the number of tons of coal and the number of cords of wood consumed in their operations are set down, together with the cost of the material.

COMPARATIVE STATISTICS.

All the tables which have been previously considered present only what may be called the positive statistics for 1889, whereas the 9 tables numbered inclusively 24 to 32 give the comparative statistics either for the 2 years 1880 and 1889 or for the 10 years 1880-1889, inclusive. In the first 4 tables the 2 years of report alone are taken into consideration, the items being gathered from the transportation volume issued by the Census Office for 1880 and from the schedules of the present inquiry. Because of the restricted scope of the inquiry by the Tenth Census, comparisons of a very limited character only can be afforded. All that is possible in this direction in fact is given in Tables 24, 25, 26, and 27, which deal respectively with the number, tonnage, and value; the expense account; the crews and wages, and the traffic in bulk of the steamer fleets, no investigation having been made into either the equipment or the operations of sailing vessels. In Table 24 a partial classification of the steamer fleet has been possible, and the equipment figures are allotted to passenger and freight boats, ferry, towing, and harbor, and miscellaneous employed steamers; but in Tables 25, 26, and 27 the unit of comparison is the very comprehensive one of a total for all the lakes, whether for the items of expenses, wages, crews, or freight and passenger traffic.

Tables 28, 29, 30, 31, and 32 have been largely made up from information furnished this office by the Commissioner of Navigation. In Table 28 there are given the figures showing the number and tonnage of all steamers, sailing vessels, and barges registered in the customs districts of the Great Lakes for the 10 years 1880-1889, inclusive.

In Table 29 the average tonnage of each steamer, sailing vessel, and barge fleet belonging to each port is worked out for the decade in question, while Table 30 gives the fluctuations from the annual average number and the annual average tonnage of all vessels registered in the different customs districts. Tables 31 and 32 are records of shipbuilding for the period in question, the first giving the number and tonnage of all steamers, sailing vessels, and barges built during those years in the various customs districts, and the second (Table 32) furnishing the data to show the number and tonnage of all steamers built in the various districts, arranged according to their methods of propulsion, that is, whether propellers or side-wheel or stern-wheel steamers.

CONGRESSIONAL APPROPRIATIONS.

The last of the tables (Table 33) gives the amounts appropriated by Congress for the survey, improvement, and maintenance of the harbors on the Great Lakes and of the rivers flowing into them, from the date of the earliest appropriation down to and including that of the act of Congress of September, 1890. These sums, so far as the grouping of periods is concerned, are given: first, up to and including 1879; second, from 1880 to 1889, inclusive; third, the appropriations in 1890, and fourth, the total appropriations from first to last. So far as localities are concerned, these sums are given with considerable detail, the items not only being furnished for each lake but for each river, bay, and harbor on which the government money has been spent.

LOCALITIES OF REGISTRATION, EQUIPMENT, AND TRAFFIC.

At the risk of introducing a long parenthesis it will be advisable, before taking up the consideration of what the tables show, to explain the various localities to which the records of registration, equipment, or traffic are allotted.

In the first place, there are on the Great Lakes and St. Lawrence river 20 ports of registration, which, grouped by states and by lakes and rivers, are as follows:

BY STATES.

Ogdensburg, New York.
Cape Vincent, New York.
Alexandria Bay, New York.
Clayton, New York.
Oswego, New York.
Rochester, New York.
Suspension Bridge, New York.
Buffalo, New York.
Dunkirk, New York.
Erie, Pennsylvania.
Cleveland, Ohio.
Sandusky, Ohio.
Toledo, Ohio.
Detroit, Michigan.
Grand Haven, Michigan.
Marquette, Michigan.
Port Huron, Michigan.
Chicago, Illinois.
Milwaukee, Wisconsin.
Duluth, Minnesota.

BY LAKES AND RIVERS.

Ogdensburg, St. Lawrence river.
Cape Vincent, St. Lawrence river.
Alexandria Bay, St. Lawrence river.
Clayton, St. Lawrence river.
Oswego, Lake Ontario.
Rochester, Lake Ontario.
Suspension Bridge, Lake Erie.
Buffalo, Lake Erie.
Dunkirk, Lake Erie.
Cleveland, Lake Erie.
Sandusky, Lake Erie.
Toledo, Lake Erie.
Erie, Lake Erie.
Grand Haven, Lake Michigan.
Chicago, Lake Michigan.
Milwaukee, Lake Michigan.
Detroit, Lake Huron.
Port Huron, Lake Huron.
Marquette, Lake Superior.
Duluth, Lake Superior.

The preceding 20 ports, called ports of registration, are those in which all the vessels of the Great Lakes are documented, and which form the recognized centers where the Treasury Department keeps its lists of vessels, their character, tonnage, and construction. In the reports on the Atlantic coast, Gulf of Mexico, and Pacific coast, these ports of registration have been strictly followed in the tabulation of the statistics of equipment and of traffic, but because of the exigencies of locality it has been found necessary to make arbitrary assignments of the statistics in both the Mississippi valley and the Great Lakes. In the report on the Mississippi valley, for instance, it will be found that the segregation of all statistics is made by the rivers and fluvial systems, while in the case of the Great Lakes and St. Lawrence river it has been found advisable to make allotment of the statistics of equipment to what may be called the ports of frequent hail, and the statistics of traffic to the ports where records of business are kept. These two lists of ports are given below:

PORTS OF ASSIGNMENT FOR STATISTICS OF EQUIPMENT.

LAKE SUPERIOR.	LAKE MICHIGAN—continued.	LAKE ERIE—continued.
Ashland, Wisconsin. Baraga, Michigan. Bayfield, Wisconsin. Duluth, Minnesota. Marquette, Michigan. Pequaming, Michigan. Republic, Michigan. St. Marys Falls, Michigan. Superior, Wisconsin.	Holland, Michigan. Kenosha, Wisconsin. Kewaunee, Wisconsin. Ludington, Michigan. Manistee, Michigan. Manitowoc, Wisconsin. Menominee, Michigan. Milwaukee, Wisconsin. Montague, Michigan. Muskegon, Michigan. North Port, Michigan. Onkama, Michigan. Pentwater, Michigan. Peshtigo, Wisconsin. Petoskey, Michigan. Racine, Wisconsin. St. James, Michigan. St. Joseph, Michigan. Saugatuck, Michigan. Sheboygan, Wisconsin. South Haven, Michigan. Spring lake, Michigan. Sturgeon bay, Wisconsin. Suttons bay, Michigan. Traverse city, Michigan. Troy, Wisconsin. Waukegan, Illinois. Waukesha, Wisconsin. Whitehall, Michigan.	Erie, Pennsylvania. Fairport, Ohio. Fremont, Ohio. Gratwick, Ohio. Huron, Ohio. Lorain, Ohio. Milan, Ohio. Norwalk, Ohio. Port Clinton, Ohio. Put in Bay, Ohio. Sandusky, Ohio. Suspension Bridge, New York. Toledo, Ohio. Tonawanda, New York. Vermilion, New York.
LAKES HURON AND ST. CLAIR.	LAKE ERIE.	LAKE ONTARIO.
Algonac, Michigan. Alpena, Michigan. Bay city, Michigan. Caseville, Michigan. Cheboygan, Michigan. Detroit, Michigan. East China, Michigan. East Saginaw, Michigan. Marine city, Michigan. Mount Clemens, Michigan. New Baltimore, Michigan. Oscoda, Michigan. Port Huron, Michigan. Saginaw, Michigan. St. Clair, Michigan.	Ashtabula, Ohio. Avon, Ohio. Buffalo, New York. Cleveland, Ohio. Dunkirk, New York.	Cape Vincent, New York. Charlotte, New York. Chaumont, New York. Hamlin, New York. Henderson, New York. Medina, New York. Oswego, New York. Pultneyville, New York. Rochester, New York. Sacketts Harbor, New York. Sodus Point, New York. Troy, New York. Wilson, New York. Youngstown, New York.
LAKE MICHIGAN.	ST. LAWRENCE RIVER.	Alexandria Bay, New York. Clayton, New York. Ogdensburg, New York.
Benton Harbor, Michigan. Charlevoix, Michigan. Chicago, Illinois. Escanaba, Michigan. Fort Howard, Wisconsin. Frankfort, Michigan. Grand Haven, Michigan. Green Bay, Wisconsin.		

PORTS OF ASSIGNMENT FOR STATISTICS OF TRAFFIC.

LAKE SUPERIOR.	LAKES HURON AND ST. CLAIR—continued.	LAKES HURON AND ST. CLAIR—continued.
Ashland, Wisconsin. Baraga, Michigan. Bay Mills, Michigan. Duluth, Minnesota. Houghton, Michigan. Marquette, Michigan. Ontonagon, Michigan. Pequaming, Michigan. St. Marys Falls, Michigan. Superior, Wisconsin. Two Harbors, Minnesota. Washburn, Wisconsin.	Alpena, Michigan. Bay city, Michigan. Black river, Michigan. Cheboygan, Michigan. Detroit, Michigan. East Saginaw, Michigan. East Tawas, Michigan. Forestville, Michigan. Marine city, Michigan. Marysville, Michigan. Oscoda, Michigan. Port Huron, Michigan. Port Sanilac, Michigan. Rogers, Michigan. St. Clair, Michigan.	St. Ignace, Michigan. Sand Beach, Michigan. Sebawaing, Michigan. LAKE MICHIGAN. Benton Harbor, Michigan. Charlevoix, Michigan. Chicago and South Chicago, Illinois. Cross village, Michigan. Depere, Wisconsin. Elk Rapids, Michigan. Escanaba, Michigan. Fayette, Michigan. Ford River, Michigan. Fruitport, Michigan.
LAKES HURON AND ST. CLAIR.		
Algonac, Michigan.		

PORTS OF ASSIGNMENT FOR STATISTICS OF TRAFFIC—Continued.

LAKE MICHIGAN—continued.	LAKE MICHIGAN—continued.	LAKE ONTARIO—continued.
Gladstone, Michigan. Glen Arbor, Michigan. Grand Haven, Michigan. Green Bay, Wisconsin. Kenosha, Wisconsin. Kewaunee, Wisconsin. Leland, Michigan. Ludington, Michigan. Manistee, Michigan. Manistique, Michigan. Manitowoc, Wisconsin. Marinette, Wisconsin. Menominee, Michigan. Michigan city, Indiana. Milwaukee, Wisconsin. Montague, Michigan. Muskegon, Michigan. Oconto, Wisconsin. Pentwater, Michigan. Peshtigo Harbor, Wisconsin. Petoskey, Michigan. Port Washington, Wisconsin. Racine, Wisconsin. St. Joseph, Michigan.	Sheboygan, Wisconsin. South Haven, Michigan. Traverse, Michigan. Two Rivers, Michigan. Waukegan, Illinois. LAKE ERIE. Ashtabula, Ohio. Buffalo, New York. Cleveland, Ohio. Dunkirk, New York. Erie, Pennsylvania. Fairport, Ohio. Huron, Ohio. Kelleys Island, Ohio. Lorain, Ohio. Sandusky, Ohio. Toledo, Ohio. Tonawanda, New York. LAKE ONTARIO. Cape Vincent, New York. Charlotte, New York. Chaumont, New York.	Dexter, New York. Henderson, New York. Millins Bay, New York. Oak Orchard, New York. Olcott, New York. Oswego, New York. Pultneyville, New York. Sacketts Harbor, New York. Sandy creek, New York. Sodus Point, New York. Wilson, New York. Youngstown, New York. Fairhaven, New York. ST. LAWRENCE RIVER. Alexandria Bay, New York. Chippewa bay, New York. Clayton, New York. Massena, New York. Grindstone island, New York. Morristown, New York. Ogdensburg, New York. Thousand Island Park, New York. Waddington, New York.

WHAT THE TABLES SHOW.

Following the consideration of the "Plan of the tables", the next step will be an inquiry as to what the tables show.

From the first of the whole series of the 33 tables it appears that on the Great Lakes and St. Lawrence river in the year ending December 31, 1889, the floating equipment numbered 2,737 craft, having a tonnage of 920,294 and an estimated commercial value of \$48,580,174. The components of this fleet were 1,467 steamers, with a tonnage of 595,813 and a value of \$40,868,824; 962 sailing vessels, with a tonnage of 185,081 and a value of \$4,238,850, and 308 unriggered craft, with a tonnage of 139,400 and a value of \$3,472,500. The various vessels that make up the preceding totals are entered for the ports which were given in the list on page 9 entitled "Ports of assignment for statistics of equipment", together with totals for the lakes on which these ports are found. These totals show that on Lake Superior there were at the close of 1889 167 vessels of all kinds, with a tonnage of 39,653 and a value of \$2,763,500; that the fleets on lakes Huron and St. Clair numbered 726, with a tonnage of 262,833 and a value of \$13,107,650; that the Lake Michigan fleet amounted to 1,003 craft, with a tonnage of 196,216 and a value of \$9,114,400; that the floating equipment on Lake Erie numbered 667, with a tonnage of 392,903 and a value of \$22,163,824; that on Lake Ontario there were 131 vessels, with a tonnage of 15,859 and a value of \$676,300; while on St. Lawrence river there were owned 43 vessels, with a tonnage of 12,830 and a value of \$754,500.

Table 2 presents the totals of the preceding table under the various heads of side-wheel passenger, propellers carrying both passengers and freight, propellers carrying freight only, tugs, schooners, and lake barges, together with their respective number, tonnage, and value. These details are given for the same 98 ports that were quoted in the preceding table. One of the most interesting facts shown by this table is that nearly two-thirds the vessels on the Great Lakes are assigned to 7 of these ports, namely, Chicago, Port Huron, Detroit, Milwaukee, Grand Haven, Cleveland, and Buffalo.

Some idea of the size of these port fleets may be gathered from the following summary, which shows the number and tonnage of certain classes of vessels which are assigned to them:

TABLE A.—SUMMARY SHOWING THE NUMBER AND TONNAGE OF CLASSIFIED VESSELS FOR THE SEVEN LEADING PORTS, TO WHICH HAVE BEEN ASSIGNED THE STATISTICS OF EQUIPMENT ON THE GREAT LAKES FOR 1889.

CITIES.	Total.		Propellers carry- ing both passen- gers and freight.		Propellers carry- ing freight only.		Schooners.		Barges.		All other classes.	
	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.
Grand total.....	2,737	920,294	303	143,907	433	388,978	917	184,029	301	138,404	783	64,976
Total of the 7 ports.....	1,814	638,599	167	101,193	349	310,316	622	120,302	129	58,514	547	48,274
Chicago.....	339	71,260	34	13,181	28	10,960	155	35,859	18	6,255	104	5,005
Port Huron.....	293	61,482	11	1,887	73	40,840	100	6,302	21	6,797	88	5,656
Detroit.....	275	129,768	17	8,565	56	56,994	83	19,074	44	21,387	75	23,748
Milwaukee.....	259	61,694	12	3,282	53	39,172	129	13,034	6	2,246	59	3,960
Grand Haven.....	225	22,308	31	5,750	23	6,305	74	4,784	1	618	96	4,851
Cleveland.....	219	163,227	19	33,986	66	82,979	64	30,873	19	12,302	51	2,087
Buffalo.....	204	128,860	43	34,542	50	72,066	17	10,376	20	8,909	74	2,967
Total other ports.....	923	281,695	136	42,714	84	78,662	295	63,727	172	79,890	236	16,702

A SERIES OF PERCENTAGES.

In Table 3 the 2,737 craft which constituted the total fleet of the Great Lakes and St. Lawrence river are subjected to a series of percentage calculations, one of which pertains to tonnage and the other to valuation, from which may be learned what proportion the tonnage or the value of any particular class of vessels bore to the total tonnage or total value of all vessels on the particular lake named, and what proportion the tonnage or the value of any particular class of vessels bore to the total tonnage of that class of vessels on all these waters. For example, it appears that the gross tonnage of steam propellers carrying freight only on Lake Superior was 13,517 tons, or 34.09 per cent of the gross tonnage on that lake. It also appears that the tonnage of steam propellers carrying freight only constituted but 3.47 per cent of the total tonnage of such vessels. Turning next to the subject of valuation, it is seen that the total value of steam propellers on Lake Superior carrying freight only was \$898,500, which was 32.51 per cent of the total value of all vessels on Lake Superior, or 3.83 per cent of the total value of this class of vessels on all the lakes. Similar percentages are given for each lake and for each of the 17 classes of vessels, side-wheel passenger, propellers carrying both passengers and freight, propellers carrying freight only, tugs, ferries, pleasure yachts, pile drivers, sand dredges, sand boats, fire boats, steam lighters, unclassified vessels, schooners, lake barges, scows, sloops, and yawls.

In Table 4 each of the 17 classes is considered separately, the details of number, gross and net tonnage, estimated carrying capacity, commercial value, and value per gross ton being entered to the credit of each class from each lake. That is, for example, it is shown that on all the lakes there were 62 side-wheel passenger steamers, of which number 23 were employed on lakes Huron, and St. Clair, 22 on Lake Michigan, 10 on Lake Erie, 4 on Lake Ontario, and 3 on the St. Lawrence river; that the gross tonnage of these 62 side-wheel passenger steamers found on all the lakes was 27,259, of which the Huron and St. Clair proportion was 17,729 tons, the Michigan proportion 5,879 tons, the Erie proportion 2,221 tons, the Ontario proportion 553 tons, and the St. Lawrence river proportion 877 tons. Similar entries for all the lakes are made for the other items and the other classes which have been mentioned. Material will be found also in this table for a calculation showing the average tonnage, average commercial value, and average commercial value per ton of all the 17 classes of craft mentioned; and in the accompanying summary these averages will be found worked out for the 5 principal classes of vessels:

TABLE B.—SUMMARY SHOWING THE AVERAGE TONNAGE AND AVERAGE COMMERCIAL VALUE PER CRAFT AND PER TON OF THE 5 PRINCIPAL CLASSES OF VESSELS OPERATING ON THE GREAT LAKES AND ST. LAWRENCE RIVER IN 1889.

CLASSES OF CRAFT.	Average tonnage.	Average commercial value.	Average commercial value per ton.
Propellers carrying both passengers and freight.	475	\$36,208	\$76.24
Propellers carrying freight only.....	898	54,131	60.26
Tugs.....	50	5,228	104.55
Schooners.....	201	4,599	22.88
Lake barges.....	460	11,507	25.02

STATISTICS OF CONSTRUCTION.

Tables 5 and 6 present the same statistics but in two methods. They correspond, in fact, in the plan of their presentation, with the two preceding tables. The first takes up each lake as a group and for each of the ports belonging to that lake enters up the number, tonnage, value, average value per ton, and average tonnage of each fleet, classed by material of construction. That is, the entries for the port of Duluth, which is on Lake Superior, are that the fleet of that port included 3 vessels of steel, 2 of iron, 33 of wood, and 1 of composite material; that the tonnage of Duluth's 3 steel vessels was 2,684, that their value was \$175,000, that their average value per ton was \$65, and that their average tonnage per craft was 895; that the tonnage of Duluth's 2 iron vessels was 98 tons, their value \$20,000, their average value per ton \$204, and their average tonnage 49, and so on all through the list. Without taking up the details of the ports, there is gathered from Table 5 that Marquette's fleet included 4 steel vessels, which were valued at \$900,000, and had an average tonnage of 2,476; that Detroit's fleet included 258 wooden vessels, whose average tonnage was but 408, but whose aggregate value was \$4,936,800; that Chicago's wooden fleet numbered 335 vessels, valued at \$2,723,350, while Milwaukee's wooden fleet numbered only 256, but was valued at \$3,123,000; that Buffalo's fleet included 14 steel vessels, which had the high average tonnage of 2,132 per vessel, and an aggregate value of \$2,950,000, and that Cleveland's wooden fleet was even more valuable than Milwaukee's, the 208 vessels of that material accredited to the principal port on Lake Erie being valued at \$7,035,800.

In Table 5 the facts connected with material of construction were assigned chiefly to localities, while in Table 6 the details are assigned chiefly to the material of construction. That is, in Table 5 the headings were the lakes, while in Table 6 the headings are the materials. One sees, for instance, that on all the lakes there were 40 vessels of steel, which had a tonnage of 75,488, a value of \$7,349,000, an average value per ton of \$97, and an average tonnage of 1,887; that the iron fleet numbered 45 vessels, with a tonnage of 35,922, a value of \$3,225,224, and an average value per ton of \$90, and an average tonnage of 798; that the composite numbered 11, having a tonnage of 14,756, a value of \$1,228,000, an average value per ton of \$83, and an average tonnage of 1,341 per vessel; and that the lake wooden fleet was 2,641 vessels, at an aggregate tonnage of 794,128, an aggregate value of \$36,777,950, an average value per ton of \$46, and an average tonnage per vessel of 301. The same figures of aggregates and averages are given for each port, and there is the material for many valuable calculations which those interested in lake statistics will doubtless find it useful to work out.

FREIGHT TRAFFIC.

The statistics of freight traffic will be found presented in 12 tables, numbered from 7 to 18, inclusive. In all of these, with the exception of the last 3, the amounts of freight moved are given respectively as those of "Receipts", "Shipments", and "Total movement". Trade between American and Canadian ports is included in these statements, but the coastwise trade between Canadian ports is of course excluded. The division of the commodities into the 4 groups entitled "Products of agriculture", "Products of mines and quarries", "Other products", and "Manufactures, miscellaneous merchandise, and other commodities", set down in Table 7, has been made, because under these groups the principal articles of the lake commerce can be properly placed, and because this classification conforms in a general way to that adopted for all transportation statistics, thus providing for an easy comparison between lake traffic and the traffic of other sections of the country. It may be added here that the sources from which these statistics of traffic have been obtained are, first, reports from the customs offices of receipts and shipments; second, reports from leading shippers at ports having no customs offices; and third, reports from the important transportation lines operating on the Great Lakes and covering that portion of the traffic not included in port manifests. The reports of the boards of trade in the important cities have also been made use of to check and correct the information thus obtained, and it is believed that the figures presented are trustworthy and accurate.

LOCALIZATIONS OF TRADE.

In Table 7 the localization is made according to the lakes, and, in addition to the division of freight into the groups of locality and those of commodity, which have already been referred to, it contains a number of interesting percentages. These include not only the per cent of total traffic and the per cent of total commodity contributed by each lake to that traffic, but there also is a summary given in which the same percentages are applied to the excess of total shipments over total receipts, and excess of total receipts over total shipments.

A few words are necessary to explain these percentage columns. The first inserted alike under "Receipts", "Shipments", and "Total movement", shows what proportion the traffic of any commodity named bears to the total freight movement on the body of water for which the statistics are compiled. For example, the shipments of iron ore on Lake Superior were 4,141,057 tons, or 76.20 per cent of the total shipments of all commodities on that lake. These figures, therefore, indicate the relative importance of the various commodities in the commerce of the waters named. The percentage columns of the summary giving the total traffic show what proportion the traffic in any commodity named on a given lake bears to the total traffic in the same commodity on all the lakes.

For example again, Table 7 shows the total shipments of iron ore to have been 7,677,107 tons, while the shipments of that commodity from Lake Superior ports were, as has been seen, 4,141,057 tons, or 53.94 per cent of the total shipments of all iron ore on the Great Lakes and St. Lawrence river.

The most interesting point in connection with this summary of Table 7 is that part of it in which is given a balance sheet of receipts and shipments. From this it appears that the total receipts exceeded the total shipments by 669,158 tons, or 2.58 per cent of the aggregate freight traffic of all the lakes.

RECEIPTS AND SHIPMENTS.

It may be stated here that the only commodities of which the receipts and shipments nearly balanced are iron ore, flour, shingles, and pig iron. Table 7 does not separate the figures respecting these commodities except for iron ore, but in the commodity tables 10, 11, 12, and 13, such a separation has been effected for a number of commodities, and from the data there given many interesting balances may be struck.

For most of the other commodities the difference between receipts and shipments is quite marked. Coal, for example, shows an excess of shipments over receipts of 943,328 tons, or 15.45 per cent. This is in large measure explained by the fact that 562,834 tons of coal were exported from American ports on Lake Ontario to Canada, and that 25,931 tons are reported to have passed through the Welland canal. This leaves 354,563 tons to be accounted for. In the case of a commodity like coal, which is so universally used, it is fair to say that this excess was shipped to Canadian ports west of the Welland canal and to small ports within the United States, of which there is no record.

The shipments of wheat exceeded receipts by 1,666,267 bushels, or 49,988 tons. This is accounted for by the export of wheat to Canada, which passed through the Welland canal and St. Lawrence river to Montreal.

The shipments of corn exceeded the receipts by 12,346,893 bushels, or 345,713 tons. This shows an excess of shipments over receipts of 17.92 per cent. On investigation, however, it was found that 7,376,786 bushels of corn were exported to Canada via the Welland canal, and 3,758,427 bushels were shipped to Sarnia and Georgian bay for transshipment in bond through Canada to points in the United States.

The summary of Table 7 also shows that the shipments of "Other grains" exceeded receipts by 25,720 tons. This was principally due to the excess of shipments of oats over receipts, amounting to 7,890,593 bushels. Of this amount it was learned that 4,937,889 bushels were shipped to Sarnia and Georgian bay ports for transportation through Canada, and the remainder, it is believed, consisted of direct exports to Canada and of shipments to small ports on the Great Lakes, where no customs offices were located and no records of receipts were kept.

SAMPLE MOVEMENTS.

The discrepancy observed between the receipts and shipments of "All other farm products", 42,852 tons, was due to the fact that the commodities included under this head were shipped from small ports, of which they formed a considerable portion of the total traffic, and were given separately in the reports made, whereas they were received at large ports and were reported under the head of "Miscellaneous".

Lumber shows an excess of receipts over shipments of 676,244,000 feet, or 1,508,859 tons, making 22 per cent of total shipments. This was partly due to the heavy importation of Canadian lumber and partly to the fact that lumber was shipped in considerable quantities from a large number of isolated mills located at remote points on the more western lakes, where no record of shipments was kept or could be obtained.

No satisfactory explanation can be given of the fact that the receipts of salt exceeded shipments by 43,676 tons. It should be stated, however, that much confusion arose in the estimates of this commodity from the fact that it was shipped both in sacks and barrels, and that the custom house authorities of various ports failed to follow the same rule in converting it into tons.

The excess of receipts of stone over shipments, which amounts to 74,801 tons, is due to the fact referred to in the case of lumber, that is to say, the sources from which stone was obtained did not permit a correct statement of shipments.

RELATIVE IMPORTANCE OF TRADING POINTS.

Another form of localization is adopted in Table 8, entitled "Freight movement in general, by ports". Here the side lines are 31 selected ports, instead of the 4 comprehensive groups of commodities as they were in Table 7, while each commodity is made the title of a separate table. These 31 ports, it should be stated, have been selected because they had a total freight traffic of 250,000 tons or over. The percentages in Table 8 are equally interesting with those of Table 7.

The first column of percentages, given alike under "Receipts", "Shipments", and "Total movement", shows what proportion of traffic in the commodity in question was done by the port named. For example, the total shipments of wheat were 969,150 tons, of which Chicago shipped 312,203 tons, or 32.21 per cent of the total wheat traffic reported. The second column of percentages is designed to show what proportion of the total traffic of any port was due to the receipts and shipments of any commodity named. For example, the total shipments from Chicago amounted to 2,914,065 tons, 10.71 per cent of which, or 312,203 tons, was, as has been seen,

shipments of wheat. By referring, therefore, to the columns of percentages three important facts may be learned: first, the relative importance of any particular port in the traffic of any commodity named; second, the relative importance of any commodity in the traffic of any port named; third (by referring to the summary), the relative importance of any port in the total traffic of the Great Lakes and St. Lawrence river.

An example of the first calculation of percentages is found in that part of the table which refers to the movement of iron ore. Here it is seen that, so far as shipments went, Escanaba exported 3,364,067 tons of that product, or 43.82 per cent of the total iron ore exporting traffic on these waters; but as this port's traffic in iron ore was confined to its exportation, its percentage of the total iron ore movement on the lakes was reduced to 21.98 per cent. The same port may be retained as an example of the second class of percentages, in which it is seen that the 3,364,067 tons of iron ore which were shipped from Escanaba constituted 98.06 per cent of the entire traffic of the port. As to the third class of percentages, Escanaba being still kept as an example, the summary will show that its relative importance in the total shipment traffic was 13.58 per cent of the total shipment.

TRAFFIC IMPORTANCE.

A still further step in the localization of the freight movement is made in the résumé, Table 9, which gives the statistics of receipts, shipments, and total movement of freight at the 107 lake and river traffic points which are embraced in the list on pages 9 and 10, entitled "Ports of assignment for statistics of traffic", and from which returns have been received. No attempt has been made to work out the percentages of all these 107 ports, both because the calculations of percentage have been made with sufficient detail in the other tables and because these additional calculations would require a far greater labor than would be commensurate with the results.

Neither are these traffic points arranged according to the lakes on which they are situated, but in an unbroken list running according to their traffic importance. Chicago, it will be seen, easily heads the list, its freight receipts having been 5,069,973 tons, and its shipments 2,914,065 tons, a total of 7,984,038 tons. Buffalo, which is next on the list, had a total freight movement of 6,730,137 tons, made up of 4,046,144 tons of receipts and 2,683,993 tons of shipments. The total traffic of Escanaba, which comes third, was 3,626,390 tons, and it is curiously made up, for while its receipts were only 195,558 tons, its shipments amounted to no less than 3,430,832 tons, which made it the greatest shipping port on the lakes. The traffic of Cleveland, which occupies the fourth place, is made up on exactly reverse grounds to that of Escanaba, for in Cleveland's case out of a total of 3,621,570 tons the shipments were but 883,862 tons, while the receipts were 2,737,708 tons. In some of the ports it will be noticed there is but 1 entry. Tonawanda, for instance, which is thirteenth on the list, appears to have been a port of receipts only, as were also Dunkirk, Waukegan, Dexter, Pultneyville, Oak Orchard, Sandy Creek, Millens Bay, Thousand Islands Park, and Youngstown, while Two Harbors, Oscoda, Peshtigo Harbor, Baraga, Pequaming, Ontonagon, Marysville, Leland, and Glen Arbor were ports of shipment only. It would be but a reproduction of the table to quote extensively from its entries, and it need only be mentioned here that the traffic figures diminish almost ton by ton until the last entry is reached, that being Youngstown, with a total traffic for the year of 75 tons.

DETAILS OF COMMODITIES.

In Table 9 the ports, as has been stated, were arranged in the order of their importance as determined by the total amount of traffic, but in the 4 tables, 10, 11, 12 and 13, in which the work of particularization is still further carried out, these 107 ports are allotted to their respective lakes, while to each port, with totals for the lakes, there are given in detail the receipts, shipments, and total movement of all commodities. In the extended division of commodities, instead of the 13 headings which were given in Table 7 and Table 8, these commodity tables give no less than 26 headings, or just double that number. Apart from the usefulness of the extensive detailed work shown in Tables 10, 11, 12 and 13, the chief point of interest in the exhibit there made, as indeed in all the tables wherein commodities are shown, is the fact that the 3 articles of coal, iron ore, and lumber comprise 75.73 per cent of the total freight movement on the lakes. If to these commodities be added corn, 82.59 per cent of the total freight tonnage is accounted for, and if to the commodities above named there be added wheat and mill products, there would only remain 10.03 per cent of the total tonnage unaccounted for. It is, then, the simplicity of the lake commerce, so far as the leading commodities are concerned, which is its chief characteristic.

The best illustration of the fact is found in Table 13, entitled "Total freight movement, by extended list of commodities". Here it is shown that the total movement of coal on all the lakes amounted to 11,268,270 tons; that the total movement of iron ore amounted to 15,303,180 tons; that the lumber movement was that of 12,205,655 tons; that the corn movement amounted to 3,513,515 tons; that the wheat movement reached 1,888,312 tons, and that of mill products amounted to 1,886,189 tons. These items represent the movement of 46,065,121 tons out of a total movement of 51,203,106 tons, leaving but a balance of 5,137,985 tons, and when from this amount is taken the 1,623,115 tons of unclassified merchandise there will remain but 3,514,870 tons to be divided among the other commodities. Between the 1,886,189 tons of mill products and the next commodity in order of importance there is indeed a great disparity of movement. The closest item is the composite one of "Other grains", of which the movement was 980,514 tons, after which the record drops to the half-million-ton standard, the commodity of salt having been

transported to the extent of 549,350 tons and that of stone to 547,229 tons. The total movement of the other commodities ran as follows:

	TONS.
Other iron manufactures	320,303
Iron, pig and bloom	316,224
Cement, brick, and lime	181,462
Other products of agriculture	132,517
Animal products	123,495
Sugar	103,317
Other ore than iron	71,562
Petroleum	52,582
Other manufactures	28,735
Fruit	26,984
Products of mines and quarries other than coal, stone, and salt	23,587
Ice	18,912
Hay	18,077
Liquors	14,236
Potatoes	3,698
Live stock	2,086

COMMODITY MOVEMENTS.

Looking at the movement of the 6 principal items, iron ore, lumber, coal, corn, wheat, and mill products, with more regard to the limitations of traffic, it is seen in Table 13 that the largest movement in iron ore was that of receipts by the ports on Lake Erie, the figures being 6,490,518 tons out of a total for all the lakes of 15,303,180 tons, and tracing down these ports on Lake Erie in Table 10, one finds that the three great ports at which receipts of iron ore were had were Ashtabula, at which was received 2,199,109 tons; Cleveland, at which the receipts were 1,951,564 tons, and Fairport, which received 928,616 tons. Table 13 also informs us that lakes Superior and Michigan were the lakes from which the great bulk of the iron ore was shipped, the figures being: Lake Superior, 4,141,057 tons, and Lake Michigan 3,446,947 tons, the addition of which 2 amounts gives 7,588,004 tons out of a total shipment movement of 7,677,107 tons. The detailed information of Table 11 explains this matter thoroughly and shows that on Lake Superior there were 3 ports from which all its shipments of iron ore were made, these being Ashland, 1,663,021 tons; Marquette, 1,541,495 tons, and Two Harbors, 936,541 tons; while on Lake Michigan there were but 2 ports from which iron ore was shipped, these being Escanaba, to which reference has already been made, with 3,364,067 tons, and Gladstone, 82,880 tons.

The total movement of coal on all the lakes, it will be remembered, was 11,268,270 tons, made up of 5,162,471 tons receipts and 6,105,799 tons shipments. The only 2 lakes, as Table 13 shows, of which the receipts were of any consequence were Lake Michigan, where the receipts were 2,865,021 tons, and Lake Superior, where the receipts were 1,754,675 tons; while nearly the entire amount of coal shipments were made on Lake Erie, the figures being 5,196,182 tons; the next and only lake of importance as a shipping lake being Lake Ontario, on which the coal shipments were 764,355 tons. Turning back to Table 10 it will be seen that the records of the individual port receipts of coal clearly indicate the importance and extent of the industries of the respective places. The largest receipts for coal, for example, on Lake Michigan were naturally at Chicago, the figures being 1,329,364 tons, and then Milwaukee, with 907,743 tons; while on Lake Superior the great receiving points for coal were Superior, 720,000 tons, and Duluth, 485,000 tons. When it comes to shipments, however, the story is quite a different one, the main port on Lake Erie being Buffalo, the shipping point of the Pennsylvania anthracite, the figures being 2,156,670 tons. Cleveland and Toledo are also large shipping points, the shipments from the first-named port being 825,030 tons, and from the second, 650,000 tons. On Lake Ontario the great coal-shipping point was Charlotte, from which 350,000 tons were sent. In a similar way the record of all the commodities could be worked out and no better history could be furnished of the whole traffic than would result from such a study, but enough space has already been taken up in indicating how this analysis of the tables may be made and of the lessons which would result from such an analysis.

A DIVERSITY OF ITEMS.

It was stated on page 14 that "the simplicity of the lake commerce, so far as the leading commodities are concerned, is its chief characteristic", but it must not be inferred, however, that because of the preponderance of three or four commodities the commerce of the lakes is not a diversified one. The contrary is, indeed, the case, as may be seen by the following lengthy list of commodities which are included in the 5 divisions of "Products of agriculture", "Products of mines and quarries", "Other products", "Manufactures", and "Unclassified":

Products of agriculture:

Wheat includes all wheat.

Corn includes green corn.

Other grains include barley, buckwheat, oats, rye, and rice.

Mill products include bran, corn meal, flour, ground feed, mill stuffs, malt, middlings, oatmeal, and oil cake.

Fruit includes all kinds of fruit.

Other farm products include onions, straw, butter, cheese, eggs, peas, broom corn, vegetables, cider, seeds, cotton, and tobacco.

Products of mines and quarries:

Other ore includes copper ore and spelter.

Stone includes limestone, sandstone, paving stone, grindstone, building stone, marble, and sand.

Other mine products, not specified, include bullion, mica, plaster, and sulphur.

Other products:

Animal products include beef, cured meats, hides and skins, pork, leather, lard, tallow, wool, and poultry.

Live stock includes hogs, horses, cattle, and sheep.

Lumber, all kinds, includes car sills, Georgia pine, hoops, hoop poles, heading, matchwood, moldings, piles, posts, pickets, slabs, staves, bolts, ties, wood, lath, and shingles.

Manufactures:

Petroleum includes other oils.

Other iron manufactures include castings, bolts, railroad iron, nails, stoves, steel, spikes, machinery, bar and sheet metal, and rails.

Liquors include spirituous and malt liquors of all kinds and alcohol.

Other manufactures, not specified, include acid, ammonia, alum, bottles, bags, baskets, crockery, fertilizer, furniture, earthenware, lead, wagons, mantels, paints, pianos and organs, paper, trunks, pipes, jars, and twine binders.

Unclassified:

Merchandise and other commodities include ashes, empty barrels, bark, empty cases, household goods, fish poles, scrap iron, junk, empty kegs, mineral water, oakum, pulp, rags, sulphite, fiber, canned goods, coffee, candles, chestnuts, drugs, fish, groceries, glass, glucose, sirup, explosives, mill merchandise, rope, starch, soap, toys, tea, varnish, vinegar, sawdust, and sundries.

UNCLASSIFIED COMMODITIES.

The 25,936,132 tons of received freight and the 25,266,974 tons of shipped freight, which have been given in traffic tables 7 to 13, inclusive, do not really include all the freight for which returns even have been made, but only that amount which could be accurately reduced to the uniform unit of a 2,000-pound ton. A very large amount of freight was reported on which no such accurate reduction could be made, these returns being set down in Table 14. Among the much diversified commodities which are given in this table are household goods, window sashes, pianos, empty cases, thrashing machines, and home and farm utensils and machinery of many descriptions. The principal item, however, was that of merchandise waybilled as "packages", of which packages there were no fewer than 8,937,402.

These unclassified commodities represented so large a freight tonnage that an estimate of their freight in tons has been made. That attempt is set down in Table 15, wherein is shown the unit of measurement or description, the estimated weight in pounds per unit, and the estimated result in tons of all these much diversified goods, the result being an addition of 460,777.23 tons to the figures which stand as the totals of the general traffic tables.

CARGO TONNAGE.

While in all these tables the receipts, shipments, and total movement of freight have been quoted as representing the traffic on the Great Lakes and St. Lawrence river, it must be observed that it is a problem in accurate statistics whether the aggregate of receipts and shipments does not show a larger movement than the actual returns of cargo tonnage would do. In Table 16 the principle has been followed that the volume of traffic would be more clearly measured, not by this aggregate of receipts and shipments for all ports, but rather by taking in the case of each commodity either receipts or shipments, whichever happened to be the larger, and using this single amount to represent the cargo tonnage of that commodity. The totals of this table are drawn from Table 8.

PASSENGER RETURNS.

The last of the traffic tables, Table 17, furnishes the figures showing the passenger movement on these waters. From the returns there shown it appears that 775,871 persons traveled on regular passenger or regular passenger and freight boats; that 836,648 excursion passengers were reported on, and that there were 623,474 ferry

passengers, making a total of 2,235,993 passengers. A consideration of these totals is postponed until the subject of comparative statistics is taken up. It will be enough to say here that nearly one-half of the excursion passengers is credited to Lake Erie, on which lake there seems to have been moved a total of 369,924 excursionists, and that Toledo was the great excursion point, no fewer than 257,046 being the number set down. The lake on which the greatest regular passenger business is reported to have been conducted is Lake Huron, which gives 315,120 out of a total of 775,871. The figures of passenger traffic are interesting so far as they go, but it must be confessed that the returns were not made with that scrupulous care which characterized the schedule reports of traffic and equipment.

FREIGHT VALUES.

Information regarding the value of the freight moved in any locality or on any particular water system has been so often asked for since commencing the preparation of these statistics that a calculation has been effected, in the case of the lake traffic, to secure an estimate of such valuation. This has been moderately practicable, as will be seen in Table 18, because of the record of estimated value kept at the offices of the St. Marys Falls canal, as will be hereafter shown in Table N inserted in the body of the present text. These estimates, which were prepared with much care by General O. M. Poe, United States Army Corps of Engineers, cover most of the principal commodities, and by applying them to the commodity tables of the lake traffic it has been found that the 27,394,767 tons constituting the total of the cargo tonnage shown in Table 16 had a value of \$359,482,437, while the addition of the 248,820 tons of unweighed freight, which has been estimated as the proper "cargo tonnage" of the 460,777 tons given in Table 15, will, at an estimate of \$60 per ton, raise the total value to \$374,411,637. The average estimated value per ton of all commodities, it will be seen, was \$13.12, while the range in the estimated values of commodities ran from \$3.05, for iron ore, to \$155.38 for "other products of mines and quarries". The next highest estimated value of any commodity is that of \$100 per ton, for "animal products". The valuation of some one or two other commodities, it will be observed, runs up into very high figures. The lead is taken by lumber, the 6,857,257 tons which were moved during 1889 being set down as worth \$70,629,747. Next come the mill products, valued at \$49,603,300, and then the wheat, \$31,662,131. The coal moved is valued at \$21,370,297 and the iron ore at \$23,415,176. The claim is not made that these estimates of values are unfailingly exact, but it is believed that they come comparatively close to the actual facts.

EARNINGS AND EXPENSES.

In Table 19 the figures are given which show how the business of transportation by water paid during 1889 for the 1,841 reporting craft. These figures are furnished under the headings of gross earnings, expenses, and net earnings, and all are given for the steam, the sailing, and the unrigged fleets allotted to their ports of registration, with totalized earnings for the lakes, and a summary in which a balance sheet is struck for all classes of craft; while in a supplementary table an estimate is made of the earnings and expenses of the 896 craft not reporting these matters. The summary's figures indicate that the gross earnings of the reporting fleet amounted to \$24,369,895, the expenses to \$19,443,241, leaving the net earnings at \$4,926,654. The largest figures out of this total are for Lake Erie, the gross earnings of its reporting fleet standing at \$9,649,090, with expenses of \$7,621,541, and net earnings of \$2,027,549. The next largest account is that of Lake Huron's fleet, which earned \$6,955,133, which paid out \$5,349,465 for expenses, and made as net earnings \$1,605,668. The third lake fleet in the order of its earnings and expense account was that of Lake Michigan, where the gross earnings were \$5,826,148, the expenses \$4,843,159, and the net earnings \$982,989. So far as ports are concerned, the largest gross earnings were those made by Cleveland's fleet, the figures being \$4,344,697 and the expenses \$3,441,929, leaving the net earnings at \$902,768. The next port in the order of its fleet operations so far as reported was Detroit, the amount being \$3,792,600, with \$2,812,931 for expenses and \$979,669 as net earnings. The third port of importance in this regard was Port Huron, its fleet returns giving \$3,162,533 of gross earnings, \$2,536,534 of expenses, and \$625,999 of net earnings. The gross earnings of Buffalo's fleet were \$2,785,853; those of Milwaukee were \$2,398,306; those of Chicago were \$2,111,312; those of Grand Haven were \$1,316,530, and those of Marquette were \$1,105,405; the earnings of each of the other places being below \$1,000,000.

Out of the totals of the combined fleets the earnings of all the reporting lake steamers amounted to \$17,808,329, the expenses to \$13,861,485, and the net earnings to \$3,946,844. Lake Erie maintains its importance in the returns of the steamers' accounts just as it did in the returns of the entire fleet, the steamers' gross earnings being \$7,461,563, their expenses \$5,732,426, and their net earnings \$1,729,137. Cleveland also retains its relative port importance, the gross earnings of its steamers being \$3,215,855, the expenses \$2,449,910, leaving the net earnings at \$765,945. These net earnings, however, were not so large as those of Detroit's steamers, the sum in that case being \$815,357 out of a total gross earnings of \$2,945,129. Next to Detroit came Buffalo, the gross earnings of its steamers being \$2,368,184 and their expenses \$1,834,458, leaving the net earnings at \$533,726.

The gross earnings of the entire reporting sailing fleet for all the lakes were \$6,480,424, the expenses \$5,513,536, and the net earnings \$966,888. The same lakes and ports that have been enumerated as controlling the most important financial figures in the reported operations of their entire sailing and steam fleets retained their leading position in the same details of the sailing vessels, and it will be scarcely necessary to quote any figures in evidence.

The earnings of the unrigged amounted to \$81,142, the expenses to \$68,220, and the net earnings to \$12,922. Only 3 ports, it will be observed, made any return for the unrigged, these being Marquette, Buffalo, and Ogdensburg. The unrigged account is in fact not altogether satisfactory, the two great difficulties in securing reports being that the most of the unrigged were mainly employed on the canals opening onto the lakes and their operations have been, whenever possible, covered in the report on canals; and, in the next place, the expense account of the unrigged was in many cases included in the accounts of the steamers supplying the motive power.

The supplementary table for the 896 craft not reporting earnings and expenses shows the estimate of gross earnings to be \$11,093,957, that of expenses \$8,448,811, leaving the net earnings at \$2,645,146, and these figures added to those of the craft actually reporting would raise the probable gross earnings of the whole operating fleet of the Great Lakes to \$35,463,852, the expenses to \$27,892,052 and the net earnings to \$7,571,800.

EXPENSE DETAILS.

In Table 20 the total amount of reported expenses, \$19,443,241, is reduced to the principal items making it up. These items are port charges, wages, provisions, current repairs, fuel (for the steamers), commissions, insurance, taxes, and office expenses, together with the two entries giving what other running and shore expenses may not have been included in the list of items just quoted. These items of expenses are distributed among the steam, sail, and unrigged craft of each port of registration, with totals for the lakes and a summarized presentation of the same items of expenses for all the fleets. Many interesting lessons are to be learned from a consideration of these analyses of expenses. By far the largest item was that of wages, the figures being \$5,676,802, of which amount \$4,235,980 were paid on board the steamers and \$1,422,957 on board the sailing vessels. Out of the total wages Cleveland paid \$652,146 to steamer hands and \$223,576 to the crews of sailing vessels, while Detroit shipowners paid out \$626,589 to the officers and crews of steamers and \$139,746 for wages on board sailing vessels. The wage account of the Buffalo steamers footed up to \$533,468, that of its sailing vessels reaching only \$70,424, while the steamer wages at Port Huron amounted to \$479,292 and the sailing vessel wages to \$230,201.

The next largest item of expense was that of fuel, the cost of which amounted to \$2,975,915. Current repairs cost \$1,681,694, \$1,158,494 being expended on steamers and \$522,557 on sailing vessels. Provisions cost \$1,322,925, the steamers' portion of that expense being \$990,678 and the sailing vessels' part being \$328,207; port charges for the fleets for all the lakes amounted to \$895,140, close to which stands the item of insurance, \$885,303. The commissions amounted to \$158,863, taxes to \$138,773, and the office expenses to \$235,085. There is material in Table 20 for many calculations which would be of especial interest to shippers, such, for example, as the relation of certain items of expense to certain classes of vessels in different localities, together with others which will suggest themselves to the practical reader.

The supplementary table for the 896 craft not reporting details of expenses gives a very interesting analysis in estimate of the \$8,448,811 which form the total estimated expenses of the nonreporting contingent of the lake fleet, and by adding these estimates to the figures actually given the probable totals in the items of port charges, wages, provisions, current repairs, fuel, commissions, insurance, taxes, and other running and shore expenses will be obtained.

EMPLOYÉS AND WAGES.

In much the same way that the grand total of expenses given in Table 19 was divided into a number of items in Table 20, so the grand total of wages which formed one of the leading items in Table 20 is analyzed in Tables 21 and 22, which treat of the monthly wages of all classes of employés. Of these employés the steamer list embraces captains, first and second mates, clerks, first and second engineers, wheelmen, lookouts, watchmen, cooks and assistant cooks, seamen, deck hands, firemen, stewards, waiters, boys, chambermaids, porters, and musicians; the sailing vessel list embraces captains, first and second mates, cooks, seamen, boys, and watchmen; and the unrigged craft list includes captains, mates, cooks, and seamen. The number of each class of employés for all fleets is given by ports, lakes, and in a comprehensive total. From this latter it is seen that on all the lakes the list of employés, their number, aggregate monthly payments, and the average monthly wages for the 1,841 reporting craft were as given in Table C, on the following page.

TABLE C.—STATEMENT SHOWING THE NUMBER OF ALL EMPLOYÉS CONSTITUTING THE ORDINARY CREWS OF 1,841 REPORTING VESSELS ON THE GREAT LAKES AND ST. LAWRENCE RIVER, TOGETHER WITH THEIR AGGREGATE AND AVERAGE MONTHLY WAGES.

EMPLOYÉS.	Number employed.	Aggregate of wages for one month.	Average monthly wages.
Total	15,761	\$769,047	\$48.79
Captains.....	1,837	175,799.	95.70
First mates.....	1,214	74,471	61.34
Second mates.....	471	26,304	55.85
Clerks.....	117	7,751	66.25
First engineers.....	1,067	93,193	87.34
Second engineers.....	597	37,159	62.24
Wheelmen.....	1,040	37,452	36.01
Lookouts.....	565	19,078	33.77
Watchmen.....	505	16,633	32.94
Cooks.....	1,387	60,794	43.83
Assistant cooks.....	306	6,419	20.98
Seamen.....	2,444	93,255	38.16
Deck hands.....	2,278	53,992	23.70
Firemen.....	1,463	53,411	36.51
Stewards.....	75	4,457	59.43
Waiters.....	215	4,395	20.44
Boys.....	34	622	18.29
Chambermaids.....	49	1,097	22.39
Porters.....	89	2,245	25.22
Musicians.....	8	520	65.00

In explanation of the apparently high wages paid in the business of the lake traffic, which the preceding and succeeding tables show, attention should be called to the fact that the season of employment on the Great Lakes never includes the winter months, and, that, therefore, any computation of annual wages can only be based upon the 7 or 8, or, at the most, 9 months of open water. From summary Table C it is also seen that the number of persons making up the ordinary crews of the 1,841 reporting vessels was 15,761, of which number (see Table 22) 832 belonged to Lake Superior, 4,278 to Lake Huron, 4,503 to Lake Michigan, 5,430 to Lake Erie, 476 to Lake Ontario, and 242 to St. Lawrence river. The number of persons who received employment on these vessels during the year, however, was much larger, the total being 28,295, of which total 1,469 belonged to Lake Superior, 6,853 to Lake Huron, 8,474 to Lake Michigan, 10,298 to Lake Erie, 615 to Lake Ontario, and 586 to St. Lawrence river. The total monthly account of the wages paid to the officers and crews given in the foregoing statement stands at \$769,047, of which amount \$43,514 were paid to officers and crews on Lake Superior, \$195,894 to those on Lake Huron, \$233,630 to those on Lake Michigan, \$264,083 to those on Lake Erie, \$21,849 to those on Lake Ontario, and \$10,077 to those on the St. Lawrence river. The average rate of wages has also been worked out in all of these tables, and when they are calculated from the lake totals it is remarkable how little variation appears. The highest average rate of wages per month for the whole body of reported employés making up ordinary crew is \$52.30 for Lake Superior, while the lowest is \$41.64 on St. Lawrence river, between which come \$51.88 for Lake Michigan's average, \$48.63 as that of Lake Erie, \$45.90 as that of Lake Ontario's employés, and \$45.79 as that of the Lake Huron contingent, the average for the whole system of lakes being \$48.79, which is, as it will be observed, very close to that of Lake Erie's average.

STATISTICS OF TRANSPORTATION.

So far as the list of the steamer crews is concerned, with their numbers, class, and aggregate monthly wages, the figures are as follows:

TABLE D.—STATEMENT SHOWING THE NUMBER OF ALL EMPLOYEES CONSTITUTING THE ORDINARY CREWS OF 1,072 REPORTING STEAMERS ON THE GREAT LAKES AND ST. LAWRENCE RIVER, TOGETHER WITH THEIR AGGREGATE AND AVERAGE MONTHLY WAGES.

EMPLOYEES.	Number employed.	Aggregate of wages for one month.	Average monthly wages.
Total	11, 159	\$554, 907	\$49. 73
Captains	1, 069	116, 678	109. 15
First mates	577	41, 289	71. 56
Second mates	339	19, 663	58. 00
Clerks	117	7, 751	66. 25
First engineers	1, 067	93, 193	87. 34
Second engineers	597	37, 159	62. 24
Wheelmen	1, 040	37, 452	36. 01
Lookouts	565	19, 078	33. 77
Watchmen	503	16, 583	32. 97
Cooks	720	37, 106	51. 54
Assistant cooks	306	6, 419	20. 98
Seamen	52	1, 870	35. 96
Deck hands	2, 278	53, 992	23. 70
Firemen	1, 463	53, 411	36. 51
Stewards	75	4, 457	59. 43
Waiters	215	4, 395	20. 44
Boys	30	549	18. 30
Chambermaids	19	1, 097	22. 39
Porters	89	2, 245	25. 22
Musicians	8	520	65. 00

Allotted to the lake and river steamer fleets, the monthly wage list for these steamers (with the average rate of wages per month) stands as follows:

LAKES AND RIVER.	Total wages paid per month.	Average rate of wages per month.
Total	\$554, 907	\$49. 73
Lake Superior	36, 479	52. 79
Lake Huron	144, 608	48. 01
Lake Michigan	148, 397	52. 75
Lake Erie	204, 532	48. 72
Lake Ontario	12, 402	46. 80
St. Lawrence river	8, 489	47. 16

The crews of the sailing vessels, with their monthly wage account, are shown in the following list:

TABLE E.—STATEMENT SHOWING THE NUMBER OF ALL EMPLOYEES CONSTITUTING THE ORDINARY CREWS OF 758 REPORTING SAILING VESSELS ON THE GREAT LAKES AND ST. LAWRENCE RIVER, TOGETHER WITH THEIR AGGREGATE AND AVERAGE MONTHLY WAGES.

EMPLOYEES.	Number employed.	Aggregate of wages for one month.	Average monthly wages.
Total	4, 541	\$212, 058	\$46. 70
Captains	757	58, 426	77. 18
First mates	632	32, 952	52. 14
Second mates	132	6, 641	50. 31
Cooks	660	23, 547	35. 68
Seamen	2, 354	90, 369	38. 39
Boys	4	73	18. 25
Watchmen	2	50	25. 00

Allotted to the lake and river sailing vessel fleets, the monthly wage list (with the average rate of wages per month) would be as follows:

LAKES AND RIVER.	Total wages paid per month.	Average rate of wages per month.
Total	\$212,058	\$46.70
Lake Superior	6,669	49.77
Lake Huron	51,286	40.51
Lake Michigan	85,233	50.43
Lake Erie	58,876	48.34
Lake Ontario	9,447	44.77
St. Lawrence river	547	24.86

The items of the wage account of the crews belonging to reporting unrigged craft may be summarized as follows:

EMPLOYÉS.	Number employed.	Aggregate of wages for one month.	Average monthly wages.
Total	61	\$2,082	\$34.13
Captains	11	695	63.18
Mates	5	230	46.00
Cooks	7	141	20.14
Seamen	38	1,016	26.74

The supplementary statement for the 896 craft not reporting crews and wages shows the estimated number of men on these vessels to be 6,965, to whom, on the basis of the rates reported on, there were paid \$317,138 as the aggregate of wages for 1 month. Accepting the sum of these 2 tables as the probable account of crews and wages for all the operating lake fleets, it would seem that the total number employed was 22,726, their aggregate wages for 1 month being \$1,086,185.

FUEL ACCOUNT.

An itemization has been made of the fuel account in Table 23, wherein are set down the accounts of coal and wood burned by the 1,072 reporting steamers during the operating year of 1889, together with the cost of the fuel. As was seen when considering Table 20, the cost of the fuel figured as an item of the expense account to the extent of \$2,975,915. The material costing this consisted of 1,118,677 tons of coal and 62,319 cords of wood. The greatest reported consumption of coal was on Lake Erie, where 497,268 tons were burned, costing \$1,333,833; on Lake Huron 324,209 tons were burned, costing \$745,130, and on Lake Michigan 205,591 tons of coal were burned. Wood was only reported as having been burned to any extent on Lake Michigan, where 60,843 cords were used; the other two localities reporting the consumption of wood for fuel being Lake Superior, with 1,100 cords, and St. Lawrence river, with 376 cords.

The supplementary report for the 395 steamers not reporting fuel gives an estimate of 412,320 tons of coal and 22,969 cords of wood burned, valued at \$1,096,536; which figures added to those actually reported give a total fuel account of 1,530,997 tons of coal and 85,288 cords of wood, the whole valued at \$4,072,451.

COMPARATIVE STATISTICS.

In considering the comparative statistics embraced in Tables 24 to 32, inclusive, it must be remembered that the figures are drawn from two different sources, according to the condition of the data. Thus the first 4 tables are made up from the information which was presented in the transportation volume of the Tenth Census compared with such totals drawn from the report of the present census as could be presented in exact juxtaposition. The only branch of transportation on the Great Lakes which the report of the Tenth Census touched upon was that conducted by steamers, so that the tabulation of comparative statistics based on the census figures was necessarily restricted to the operations of this class of craft, and to such entries of equipment, operations, and expenses as formed the subject of the inquiry by both the Tenth and Eleventh Censuses.

In this connection the following extract from the report on transportation by the Tenth Census may be pertinently quoted:

THE LAKES IN 1880.

On the northern lakes, embracing the steamboat interests of states and parts of states tributary to these waters, but excluding Lake Champlain, there were at the close of the census year 947 steamers of all classes, measuring 222,290.45 tons, valued at \$13,918,925, with \$16,978,108 of capital invested. They gave employment to 9,143 men, and there were paid for services \$3,293,964, making an average of \$360.27 per man, exclusive of shore help. The passenger movement, amounting to 1,356,010 persons carried, may be divided

into 926,250 regular and excursion passengers and 429,760 ferry passengers, not including the transfers of the Canada Southern Bridge Company at Stony Island, near Detroit, with one of their boats an American bottom. The freight movement reached 4,368,171 tons, exclusive of lumber carried, which approximated 318,889,000 feet. The lumber that was towed during some stage in its journey from the forest and mill to the manufactory would include a large share of the 4,497,211,000 feet cut on the upper and lower peninsula of Michigan, as well as a large portion of the lumber production of Wisconsin. * * * Employed in this line of traffic there were some 70 steamers, measuring 23,300.84 tons, and valued at \$1,302,500, engaged in carrying this production. In the grain trade the number of steamers approximated 67, measuring 80,669.12 tons, and valued at \$4,777,700, and in the ore trade there were some 38 steamers, measuring 36,145.93 tons and valued at \$1,750,500. * * *

The fuel consumed by the steamers on the northern lakes was reported at 488,610 tons of coal and 255,629 cords of wood, the latter consisting largely of slabs and poor grades of wood and refuse used in the towing steamers in the lumber regions of Michigan and Wisconsin. The coal consumed was largely of the bituminous variety, mined in southern and central Ohio. * * *

Of the 947 steamers owned on the northern lakes, 141 were passenger steamers, measuring 56,471.26 tons and averaging 400.50 tons each; 28 ferry steamers, measuring 3,624.26 tons and averaging 129.43 tons each; 202 freight steamers, measuring 139,154.16 tons and averaging 688.88 tons; 426 towing steamers, of 20,274.95 tons, with an average of 47.59 tons; and 150 yachts, measuring 2,765.82 tons and averaging 18.44 tons. In 1851 the average tonnage of steamers on the northern lakes was given at 437 tons. The increase in the number of tugs and yachts since that date has reduced their average to 235 tons at the present time. The maximum tonnage in 1880 was 2,082 tons, while the maximum of actual carrying capacity was about 2,400 tons.

LESSONS OF COMPARISON.

So far as Table 24 goes, it might form the basis of much interesting speculation, but all that it is necessary to indicate at present is the fact that in 1880 the lake fleet of steamers numbered 947, with a tonnage of 222,290 tons and an estimated commercial value of \$13,918,925, and that in 1889 the lake fleet of steamers numbered 1,467, had a tonnage of 595,013 tons, and was valued at \$40,868,824. The classification of the fleets for both years has been made by passenger and freight carrying boats, ferryboats, towing and harbor boats, and miscellaneous craft. In all of these classes, with the exception of the miscellaneous, it will be observed there has been a steady and well-defined increase, and the only reason that this is not marked in the miscellaneous class is because in the entry of 1880 there were included a number of steam canal boats that were omitted from that of 1890. It has been said that the increase in the 2 years of report is a steady and well-defined one, but it will be observed that there is an apparent lack of ratio between the number of the passenger and freight boats on the one hand and the increase of their tonnage and value on the other, for while the increase in the number of the steamers is at the rate of 132.65 per cent, the increase in the tonnage stands at 186.34 per cent, and that of value at 228.87 per cent. The explanation of the apparently undue increase in tonnage and value lies in the fact that the passenger and freight steamers which are being turned out from the lake shipyards are yearly becoming larger and more expensive, a subject concerning which much more is said under the head of "Comparative record of shipbuilding".

EARNINGS AND WAGES.

Only the gross earnings are given in Table 25, because in the investigation of 1880 only these were asked for, and it was not possible to make up a balance sheet owing to the absence of any figures of expenses, and only the total for all the lakes is published because of the fact that in 1880 the returns were made by states, while in 1889 they were made by lakes. This unfortunately does away with the possibility of a comparison by localities, and all that can be shown or said is that in 1880 the gross earnings on all the reporting craft of the Great Lakes amounted to \$12,136,228, while in 1889 the sum had risen to \$17,808,329, a gross increase of \$5,672,101 and an average annual increase of more than \$630,000. The amount paid out in wages on reporting vessels in the 2 years is given in Table 25, because it is the only item of expense that can be compared, but a better consideration of it may be had from a study of Table 26. The entry entitled "Total number of men making up the ordinary crews" must be accepted as indicating the total number of men required to work all the reporting craft, and not the total number of men employed during the year. The number of men making up the complement of the crews on reporting vessels in 1880 was 9,143, while in 1889 the number reported was 11,159. To these there was paid out as wages during 1880 \$3,293,964, while in 1889 the total wages paid amounted to \$4,235,980. The average annual wages per man for the first-mentioned year was \$360.27, and \$379.60 for 1889, an average increase of wages per man of \$19.33.

FREIGHT AND PASSENGER TRAFFIC.

The explanation of the abnormal increase of freight movement for 1889 over that of 1880, as given in Table 27, is a twofold one. In the first place the increase of steamers as freight carrying vessels has been unusually large, the fleet of 1889 (as it will be remembered was shown in Table 24) being more than 100 per cent greater than it was in 1880, while the tonnage had just about trebled. This means that the increase of steamer carried freight would be the largest of any portion of the lake traffic, and if the tonnage of the fleet has increased threefold there is no good reason why the freight movement might not have been increased in the same ratio. The figures of freight movement as given in Table 27, however (4,368,171 tons in 1880 and 20,143,483 tons in 1889), show a more than quadruple increase, and the other part of the explanation is that the means employed to secure a full report in 1889 were further reaching than those which could be availed of in 1880. The increase in passenger movement, it

will be observed, while it does not show any such extraordinary accretion, is still a large one, the total movement for 1880 standing at 1,356,010 passengers against 2,235,993 in 1889. These totals were made up of 926,250 regular and excursion passengers and 429,760 ferry passengers carried in 1880 and 1,612,519 regular and excursion and 623,474 ferry passengers carried in 1889.

FLEETS IN 1880 AND 1889.

The comparative statistics found in Table 28 and the 5 following tables have been gathered from the reports of the bureau of navigation. It will be noticed that although the total of the fleet for 1889 is the same in both the reports of the Commissioner of Navigation and the Census, the component parts do not correspond. The two reports stand as follows:

EQUIPMENT.	Census report.	Report of Commissioner of Navigation.
Total	2,737	2,737
Steamers	1,467	1,436
Sailing vessels	962	1,251
Unrigged	308	50

The only difference between these two lists is that of the distribution of the unrigged. If the Commissioner's 50 barges are subtracted from the census 308 unrigged, 258 unrigged will remain to be distributed among the steamers and sailing vessels. Next it will be seen that the census report gives 1,467 steamers, while the Commissioner's is 1,436, which means that the census has grouped 31 more craft under the head of steamers than the Commissioner has done. Adding the extra number of unrigged, 258, to the 31 surplus steamers, a total of 289 is reached, which is exactly the number of sailing vessels required to raise the census 962 to the Commissioner's 1,251. The yearly details afforded in Tables 28, 29, and 30 form an interesting record, but the pith of the subject is found in the recapitulation of the 10 years, wherein the addition of the individual records of the various districts is inserted, the total representing the lake fleet for each of the years in question. No clearer presentation of the gradual change in the class of craft in use on the lakes can be made than is found in this recapitulation, for while the number and tonnage of the entire fleet has risen from 2,487 craft with an aggregate tonnage of 552,342 tons in 1880 to 2,737 craft with an aggregate tonnage of 900,847 tons in 1889, it will be seen that the increase has been made only in the steamer fleet, and that there has been a steady diminution in both the sailing vessels and barges registered in the various ports. The sailing vessels, which numbered 1,415 in 1880, had dropped to 1,332 in 1883 and to 1,251 in 1889. While, however, the number had thus dwindled, the tonnage, it will be seen, displayed an increase, for, although it was 302,265 tons in 1880, it had risen to 322,694 tons in 1889, notwithstanding the fact that the number had decreased. The explanation, of course, lies in the circumstance already alluded to, the increased average tonnage of the vessels built in late years. In the case of the barges, however, the diminution has been a steady one in both number and tonnage. In 1880 the number of registered barges was 160, with a tonnage of 40,612 tons; by 1884 it had dropped to 120, with a tonnage of 33,326 tons, while by 1889 the number had decreased to 50 and the tonnage to 6,948 tons.

SHIPBUILDING RECORDS.

Tables 31 and 32 form a record of shipbuilding for the same 10 years, 1880-1889, that have been used in the 3 preceding tables. Table 31 gives the figures from the yards of each customs district and for the construction of steamers, sailing vessels, and barges; while Table 32 deals only with the steamers built during each of the 10 years, and then considers them under the various methods of propulsion, that is, whether propeller, side-wheel, or stern-wheel. Each table is supplemented by a recapitulation, in which only the totals for the whole lake system are inserted.

A study of Table 31 shows that if arranged in the order of their importance as shipbuilding centers, the different customs districts would stand as is shown in the following table:

TABLE F.—STATEMENT SHOWING THE TOTAL NUMBER OF REGISTERED VESSELS OF ALL CLASSES BUILT IN THE CUSTOMS DISTRICTS OF THE GREAT LAKES AND RIVER ST. LAWRENCE DURING THE YEARS 1880-1889, THE DISTRICTS BEING ARRANGED IN THE ORDER OF THEIR IMPORTANCE.

CUSTOMS DISTRICTS.	Total.	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889
Total	1,375	117	175	199	134	110	95	66	117	183	179
Huron	245	21	30	36	24	19	14	9	22	31	39
Michigan	206	23	23	35	20	18	11	13	18	17	28
Milwaukee	182	16	23	28	21	8	15	6	7	30	28
Buffalo creek	180	9	31	23	22	20	8	10	14	23	20
Detroit	156	21	24	23	11	15	9	3	11	19	20
Cuyahoga	123	9	14	18	8	7	4	5	12	23	23
Chicago	64	1	6	15	12	5	8	3	9	3	2
Cape Vincent	41	5	4	3	3	2	10	2	2	11	4
Sandusky	29	3	3	5	1	2	3	5	.....	5	2
Superior	28	.....	5	4	3	3	1	2	2	5	3
Oswego	25	3	6	1	3	1	.....	1	4	5	1
Niagara	23	2	.....	3	.....	1	1	.....	8	7	1
Oswegatchie	20	1	1	1	1	4	5	3	.....	3	1
Miami	19	2	3	.....	4	2	1	.....	.....	2	5
Erie	14	.....	.....	4	.....	.....	3	1	1	3	2
Genesee	11	1	2	.....	.....	1	.....	2	5	.....	.....
Duluth	7	.....	.....	.....	1	2	2	1	.....	1	.....
Dunkirk	2	.....	.....	.....	.....	.....	.....	.....	2	.....	.....

From the preceding summary it is seen that the districts of Huron, Michigan, Milwaukee, Buffalo, Detroit, and Cuyahoga (Cleveland) easily lead. It will be seen, too, that with Detroit as the exception of locality and with the years 1882, 1884, 1885, and 1886 as the exceptions of time, the increase in the shipbuilding records of these leading districts has been a steady one. Contrasting the figures of 1880 and 1889, Huron, for instance, is seen to have gained 18 in her output of vessels, Michigan to have gained 5, Milwaukee 12, Buffalo 11, and Cuyahoga 14. Chicago's shipbuilding record is surprisingly small, and it is only during the past year or two that this city has seriously taken up the industry of construction. The largest record of any one district for any one year in point of number was for Huron, in 1889, when she added 29 steamers of 20,980 tons burden, 9 sailing vessels of 4,306 tons burden, and 1 barge with 174 tons burden to the lake fleet, the total addition being 39 craft, with a tonnage of 25,459 tons. The largest record of any one district for any one year, in point of tonnage, was that of Cuyahoga, in 1889, when she built 23 vessels, with an aggregate tonnage of 31,205 tons, making an average tonnage of 1,357 tons.

To Cuyahoga's shipyards for 1888 must also be credited the second best year's output, the aggregate tonnage of 23 vessels launched in that year rising to 29,786 tons. Next in the order of the year's shipbuilding comes Huron, in 1889, when from the yards of that district there were launched 39 vessels, with a tonnage of 25,459 tons, and next Detroit, for 1889, when 20 vessels were built, with an aggregate tonnage of 22,426 tons. Taking the three years of 1887, 1888, and 1889, it will be seen that during this term shipbuilding on the Great Lakes reached its highest point, the record, as is shown by the subjoined table, being 200 vessels launched, with an aggregate tonnage of 192,281 tons.

TABLE G.—STATEMENT SHOWING THE OUTPUT OF THE THREE LEADING SHIPBUILDING DISTRICTS ON THE GREAT LAKES FOR 3 SELECTED YEARS, TOGETHER WITH THE AVERAGE TONNAGE OF THE VESSELS AND FLEETS.

CUSTOMS DISTRICTS.	Year.	Tonnage.	Number of vessels.	Average tonnage.
Total for 3 districts.....		192,281	200	961
Cuyahoga.....	1887	16,351	12	1,363
	1888	29,786	23	1,295
	1889	31,205	23	1,357
Total for Cuyahoga.....		77,342	58	1,333
Detroit.....	1887	10,554	11	959
	1888	20,535	19	1,081
	1889	22,426	20	1,121
Total for Detroit.....		53,515	50	1,070
Huron.....	1887	13,690	22	622
	1888	22,275	31	719
	1889	25,459	39	653
Total for Huron.....		61,424	92	668

A column of average tonnage has been inserted in the preceding table, and from the figures there given a very instructive lesson is to be learned. They show, for instance, that the vessels built at Cuyahoga had the highest average tonnage of any vessels built, irrespective of class. That average ran 1,363, 1,295, and 1,357 tons for 1887, 1888, and 1889, respectively, or an average vessel tonnage of 1,333 tons per vessel for the 3 years. This high average vessel tonnage is indeed a characteristic of shipbuilding on the lakes, but is especially characteristic of the new steamer fleets, as will be seen when Table 32 is reviewed.

The account of barge building, as shown in the recapitulation of Table 31, can hardly be regarded as of very much importance, because, as has been elsewhere said, the barges taken account of by the Commissioner of Navigation are only those that are registered, registration being optional with the owner. Still the table, so far as its value for comparative statistics goes, would not be complete without this entry. It is valuable, too, as showing that both in number and tonnage the building of barges, that is, of registered barges, is yearly diminishing; for while in 1881 the account shows the building of 14 barges with an aggregate tonnage of 3,111 tons, in 1889 only 2 were built, with an aggregate tonnage of 247 tons, and in 1884 there was but 1 small barge built.

The fluctuations of the building of sailing vessels is quite clearly shown in the recapitulation of Table 31, and while there was a gradual rise in the statistics of their construction from 47 in 1880 to 66 in 1882, there was a still more strongly marked declension from 1882 to 1886, in which latter year but 15 sailing vessels were built. The last 3 years in the table did not bring the number back to the large figures of 1882, although these years were marked by an unusual activity in the lake yards, the numbers running 34, 42, and 32. It will be noticed, however, that the aggregate tonnage suffered no such decline.

One has to look to the records of steamer building as shown in this recapitulation table (and in a still more condensed form in the accompanying summary) for the explanation of the increased importance of this branch of the shipbuilding industry.

TABLE H.—SUMMARY SHOWING THE NUMBER AND GROSS TONNAGE OF STEAMERS BUILT ON THE GREAT LAKES AND RIVER ST. LAWRENCE FROM 1880 TO 1889, INCLUSIVE.

YEARS.	Number.	Gross tonnage.
1880.....	63	14,106.46
1881.....	109	49,080.21
1882.....	128	33,596.45
1883.....	100	17,253.42
1884.....	80	20,205.69
1885.....	64	20,228.52
1886.....	46	12,610.73
1887.....	75	47,183.46
1888.....	139	86,715.98
1889.....	145	93,706.73

The peculiarity of the steamer-building record, it will be seen, is that, notwithstanding the lack of any uniform increase in number, the tonnage shows a steady rise. Thus, while in 1881 the steamers built numbered 109, their tonnage being 49,080 tons, in 1888 the number of steamers built was 139, but the aggregate tonnage had risen to 86,716 tons; and while in 1882 the number of steamers was 128 as against 145 for 1889, the tonnage of the steamers

built in the first year was 33,596 tons as against 93,707 tons for the latter year. Reduced to the common denomination of average tonnage, these figures of comparison mean that in 1882 the average tonnage of the steamers built was 262.47 tons and that in 1889 the average tonnage of the steamers built was 646.25 tons. When, too, the calculation is made one of percentage, it is found that while the percentage of number showed an increase for 1889 over 1882 of 13.28 per cent, the percentage of tonnage showed an increase for 1889 over 1882 of 178.92 per cent.

METHODS OF PROPULSION.

Further evidence of a continued alteration in the condition of affairs is found in Table 32, wherein a division is made of all the steamers built during the 10 years 1880-1889 into the 3 classes of propulsory power, propeller, side-wheel, and stern-wheel. It will hardly be necessary to make any analysis of the yearly tables wherein the individual entries of the different districts are set down, although the story told there is an interesting one in many particulars, while by turning to the recapitulation the relative favor and use of the different classes may be seen at a glance. During the 10 years but 15 stern wheelers, having a tonnage of 2,696 tons, were built, while in the same period 889 propellers were built, with an aggregate tonnage of 367,275 tons. The side wheelers maintained their position with some firmness, although the difference between the 18 vessels which were built in 1882 and the 6 which were built in 1889 can not fail to be marked.

The popularity of the propeller is unquestioned and unmistakable, and even when a comparison is made between the 2 years of 1881 and 1882 with 1888 and 1889, these being the 4 years of the greatest activity, the increase for the 2 latter years, especially in tonnage, is certainly remarkable. The output of the different localities, so far as the number of steamers built goes, is set down in the following summary:

TABLE J.—STATEMENT SHOWING THE NUMBER OF PROPELLERS, SIDE-WHEEL, AND STERN-WHEEL STEAMERS BUILT IN THE CUSTOMS DISTRICTS OF THE GREAT LAKES AND RIVER ST. LAWRENCE DURING THE YEARS 1880-1889, INCLUSIVE.

CUSTOMS DISTRICTS.	Propellers.	Side wheel.	Stern wheel.
Total	889	45	15
Oswegatchie.....	14		
Cape Vincent.....	19	■	
Oswego.....	18		
Genesee.....	8	2	
Buffalo creek.....	160	3	
Cuyahoga.....	50	13	3
Sandusky.....	15	3	2
Miami.....	12	1	1
Detroit.....	103	7	
Huron.....	126	1	
Michigan.....	133	1	7
Chicago.....	45	1	
Milwaukee.....	100	9	2
Superior.....	13		
Niagara.....	17		
Erie.....	13	1	
Duluth.....	2	1	
Dunkirk.....	■		

MAGAZINE STATEMENTS.

The relative favor and use of the different classes of steamers may be easily gathered from the preceding table. Concerning the changes which have marked the history of construction of the whole lake fleet, Lieutenant Charles C. Rogers, United States Navy, says, in an article recently published in Scribner's:

The history of marine architecture does not furnish another instance of so rapid and complete a revolution in the material and structure of floating equipment as has taken place on the Great Lakes since 1886. In that year the total valuation of the vessels by Lloyds was about \$30,600,000. In 1889 60 new steamers and 11 sailing vessels, aggregating 70,000 tons and valued at \$6,650,000, were added to the fleet. During the 4 winters of 1886-1890 the tonnage of the lakes was nearly doubled, 206 vessels, measuring 399,975 tons, were turned out of the shipyards, with a valuation of \$27,389,000. During the same time the number of steamers of more than 1,500 net register tons increased from 21 to 110. The two valuations of the fleet already presented differ by more than \$9,000,000, but either one emphasizes the fact of the very recent and extraordinary growth of this commerce and renders it difficult to predict the increase in the tonnage and the size of vessels upon the lakes during the few years that remain till the opening of the next century. * * * The sailing vessel has almost disappeared from the lakes; the square-rigged ship is no longer seen, and only a few of the great cargo-carrying schooners are left. The sailing fleet was succeeded by the propellers, * * * with its tow of one or more consorts, and it in turn is giving way to the modern steamer, maintained at a little more than one-half the cost, while having a carrying capacity quite as great, a speed double that of the propeller and consort, and making two or three round trips for one of the tow. * * * The shipbuilders of the lakes are progressive, and keep pace with all improvements in marine architecture. Steel vessels are built with

double bottoms, water-tight compartments, triple expansion engines, and modern electrical and steam appliances. The structural strength may be realized from the fact that a large proportion are built for the trade in iron ore. At a time trial at Escanaba, during the summer of 1887, a steamer was loaded with over 2,000 tons of ore and steamed away from the dock in 45 minutes after being placed under the chutes. The record shows that another vessel was loaded with 2,800 tons of coal in 1 hour and 50 minutes; 300 tons for fuel were put on board in another hour; so that in 2 hours and 50 minutes after opening the hatches the vessel was loaded and coaled. That ordinary seagoing ships will not stand the strain of this traffic is demonstrated by the fact that 4 steel steamers built on the Clyde for Canadian owners had to be repaired and strengthened throughout after one season's work to fit them for further service. These vessels steamed across the Atlantic, were cut into halves on the lower St. Lawrence, the sections being then towed through the canals and put together on the lakes. 2 more were built on the Clyde, with the benefits of this experience and of the builder's visits to our northwestern shipyards. * * * The record of large cargoes is equally creditable. The Maryland, belonging to the Intercean Transportation Company of Milwaukee, has carried 3,737 net tons of ore from Escanaba to South Chicago on a draft of 16.5 feet; the E. C. Pope, owned by Eddy Brothers, of Bay city, transported 3,628 net tons from Escanaba to Buffalo on 16 feet draft, and 3,167 tons from Ashland to Lake Erie, drawing 14.5 feet. * * * In the Cleveland shipyards were built the magnificent iron and steel fleets of the Northern Steamship Company, the Mutual Transportation line, and the Minnesota Iron Company of Chicago, costing \$200,000 each; those of the Western transit line of the New York Central railroad, the equals in speed, style, and carrying capacity to any ocean vessel, and the 5 passenger steamers of the Detroit and Cleveland Steam Navigation Company, costing as high as \$350,000 each, and ranking among the finest passenger boats in the country. From the shipyards of Chicago steel steamers of 4,000 to 5,000 tons displacement have been launched. 5 large steamer lines ply regularly to ports on lakes Erie, Huron, Superior, and Michigan, with a combined fleet of over 60 steamers and a capacity ranging from 1,750 tons to more than 3,000 tons. The Union Steamboat Company owns the Oswego and Chemung, the largest steamers of the lakes, with 4,800 tons displacement and a total cost of \$560,000; and it was on these lakes that the whaleback was first put to running.

FIGURES FROM LLOYDS.

In addition to the comparative statistics which have been collated from the census returns for 1880 and 1890 and from the data collected by the Commissioner of Navigation, a third series has been compiled from Lloyds Inland Register for the years 1886, 1887, 1888, 1889, and 1890. A bulletin giving these figures in detail was prepared by Mr. Charles H. Keep, under the direction of Professor Henry C. Adams, and was issued in February, 1891; but in view of the fact that the statistics in question cover but 6 years out of the decade and that the comparative statistics secured from the other sources just referred to are so much more comprehensive, it will be scarcely necessary to do more than to present a résumé containing the salient facts of the tables given in the bulletin in question.

Before considering these tables the reader should be notified that barges are included under the head of sailing vessels, and that no comparison between the totals secured from Lloyds and those from other sources can be effected owing to the fact that the Register only takes cognizance of certain craft, while so far as the values go those quoted by Lloyds are plainly excessive:

TABLE K.—STATEMENT SHOWING THE COMPARATIVE STATISTICS OF THE NUMBER, TONNAGE, AND VALUE OF THE FLOATING EQUIPMENT OF THE GREAT LAKES AND RIVER ST. LAWRENCE, DRAWN FROM LLOYDS REGISTER FOR THE YEARS 1886, 1887, 1888, 1889, AND 1890.

CLASSIFICATION OF VESSELS.	1886			1887			1888			1889			1890		
	No. of ves- sels.	Net ton- nage of vessels.	Valuation of vessels.	No. of ves- sels.	Net ton- nage of vessels.	Valuation of vessels.	No. of ves- sels.	Net ton- nage of vessels.	Valuation of vessels.	No. of ves- sels.	Net ton- nage of vessels.	Valuation of vessels.	No. of ves- sels.	Net ton- nage of vessels.	Valuation of vessels.
Total	1,997	634,652	\$30,597,450	1,829	606,353	\$35,634,950	1,884	657,723	\$42,210,200	1,947	753,819	\$49,957,550	2,055	826,360	\$58,128,500
A—Structure:															
Side-wheel steamers	43	14,150	1,494,500	38	13,692	1,637,000	36	13,742	1,609,500	39	16,443	2,163,000	42	16,949	2,209,500
Propellers under 1,000 tons.	335	177,402	9,475,100	354	125,057	10,149,100	379	129,744	11,353,300	409	149,793	12,652,800	431	154,232	13,905,600
Propellers between 1,000 and 1,500 tons.	72	86,728	5,935,000	92	112,968	8,841,000	105	129,410	10,246,000	116	144,513	11,379,000	122	151,611	11,804,000
Propellers over 1,500 tons..	21	34,868	2,645,000	31	51,761	4,085,000	46	78,103	6,923,000	75	130,235	11,802,000	110	188,390	17,737,000
Tugs	466	11,737	2,497,600	424	10,847	2,378,400	423	11,371	2,439,100	426	12,323	2,703,750	448	12,520	2,778,250
Schooners	730	183,792	5,398,850	587	166,167	4,972,050	582	164,240	5,691,800	580	164,285	4,947,500	577	158,620	4,726,150
Barges	330	125,975	3,151,400	303	125,861	3,572,400	313	131,113	3,947,500	302	136,227	4,309,500	325	144,038	4,968,000
B—Material:															
Steel	6	6,459	694,000	11	14,134	1,654,000	23	31,928	3,925,000	41	49,784	7,324,500	68	99,457	11,964,500
Iron	35	22,714	2,675,000	37	23,464	2,815,000	39	24,940	2,765,000	34	24,450	2,608,500	39	24,673	2,638,000
Composite	2	63	39,000	1	2,391	319,000	7	5,178	579,000	9	9,996	1,079,000	13	13,554	1,465,000
Wood	1,954	605,416	27,189,450	1,777	566,364	30,846,950	1,815	595,677	34,941,200	1,863	669,589	38,945,550	1,935	688,676	42,061,000
C—Sail or steam:															
Steam vessels	937	324,885	22,047,200	939	314,325	27,090,500	989	362,370	32,570,900	1,065	453,307	40,700,550	1,153	523,702	48,434,350
Sailing vessels	1,060	309,767	8,550,250	890	292,028	8,544,450	895	295,353	9,639,300	882	300,512	9,257,000	902	302,658	9,694,150

CHANGES IN EQUIPMENT.

In the text of Bulletin No. 29, Professor Adams said:

It would be difficult to add anything to the impression which a study of the preceding figures must produce. There are, however, certain facts to which it may not be inappropriate to call particular attention.

First. The figures presented in the tables show that sailing vessels are fast giving place to vessels propelled by steam. Taking schooners and barges together, and comparing the figures for 1886 and 1890, it appears that there has been a decrease of 14.91 per cent in number, 2.29 per cent in tonnage, and 13.38 per cent in value. Taking schooners and barges separately, the greater decrease is in schooners. Thus, although there is an actual decrease in the number of barges in 1890 as compared with those of 1886, there is an increase of 14.34 per cent in the tonnage of this class of vessels. These facts indicate an increased use of steam both for immediate propulsion and for towing.

Second. The figures show that steam vessels which have been built during the last 4 years are of a constantly increasing size. In 1886 there were but 21 propellers of over 1,500 tons burden, in 1890 there were 110 propellers of this class. But the tonnage of vessels of this class has increased more rapidly than their number. Thus the total tonnage of the 21 vessels of over 1,500 tons burden in 1886 was 34,868 tons, while the total tonnage of the 110 vessels in 1890 was 188,390 tons; that is to say, the percentage of increase in the number of vessels is 423.81, while the percentage of increase in tonnage is 440.29. The total value of this class of vessels in 1886 was \$2,645,000, in 1890 it was \$15,000,092, showing an increase for the 4 years of 570.59 per cent. A comparison similar to this for any of the classes of vessels, when taken in connection with well-known facts relative to the ownership of these large vessels, clearly shows that the traffic of the Great Lakes is rapidly coming under the control of companies having at their command large capital.

Third. The same conclusion may be arrived at if the changes in the material made use of in the building of new vessels are considered. Steel is more generally used for large vessels than iron, composite, or wood. In 1886 there were but 6 steel vessels afloat on the lakes, with an aggregate tonnage of 6,459 tons and an aggregate value of \$694,000. If by the side of these figures are placed the corresponding data for the year 1890, it appears that there are now 68 steel vessels afloat on the lakes, with an aggregate tonnage of 99,457 tons and an aggregate value of \$11,964,000. This shows an increase in number of vessels of 1,033.33 per cent, in tonnage of 1,439.82 per cent, and in valuation of 1,623.99 per cent. Iron and wooden vessels have barely held their own during these years. Vessels built of composite, on the other hand, show a marked increase, both in number, tonnage, and value. These facts indicate that a new factor is being introduced into the problem of transcontinental transportation.

THE THREE CANALS.

The comparative statistics furnished in the 3 series of tables which have just been reviewed are important and valuable as showing how steady and rapid the growth of trade has been on all the lakes, treated as a system, but it may be stated without any attempt at discrimination that the development of Lake Superior's commerce has been exceptionally remarkable. This has been undoubtedly due, in a very large part, to the opening of the St. Marys Falls canal, and it will be quite in keeping with the plan of the text to consider at this point the results which have attended the inception and extensions of this passageway between the "Brother to the Sea" and the lower lakes, and then to somewhat more briefly consider the returns of the other 2 statistical keys to the commerce of the Great Lakes, the Detroit river and canal and the Welland canal.

THE ST. MARYS FALLS CANAL.

Long after a population had moved into the states and territories bordering on the other lakes of the system Lake Superior was unknown and unexplored. "For two centuries", says General Poe, "this greatest of all inland seas lay in distant isolation enfolded by a wilderness, the coming civilization heralded only by the missionary and fur trader coasting along its silent shores". The mineral treasures in this "enfolding wilderness", originally drew the explorer up the St. Marys river, but it was not until in 1855, when the canal and first lock at St. Marys were completed, that the commerce of Lake Superior can be said to have had any appreciable existence. It will not be necessary to follow the growth of the commerce through the canal year by year, but taking the traffic report from 1881, at which date the new and larger lock was constructed, it is seen that in 1882 there passed the canal 2,029,000 tons of freight, in 1883 there were 2,267,000 tons; in 1885 these figures had risen to 2,356,000 tons, in 1886 to 4,527,750 tons, in 1887 to 5,494,649 tons; that in 1888 the figures passed the six-million limit, standing at 6,411,423 tons; that in 1889 they were 7,516,022 tons, and that in 1890 they had risen to 9,041,213 tons, a record of increase in traffic which is certainly unparalleled.

Taking up the subject in a somewhat more detailed form, a treatment which the importance and pertinency of the subject merits, it is found that the canal for 1889 was open to navigation 234 days, the first vessel having passed April 15, and the last December 4, 1889, thus making the season 22 days longer than that of 1888. The average number of vessels passing per day for the whole season was 40.9, and for the months of June, July, and August, 50. The number of vessel passages of all classes exceeded that of the preceding season by 1,776, or a little less than 23 per cent. The increase in the freight movement for 1889 over that of 1888 was 1,104,599 tons, or 17 per cent, while the increase in registered tonnage was 2,091,276 tons, or 41 per cent. This wide discrepancy was due to the low stage of water, which did not permit vessels to carry full loads. Tables L, M, and N, on the following page, show these facts, as well as furnish a comparative statement of the amount and value of commerce passing through the canal for the calendar years 1888 and 1889.

TRANSPORTATION ON THE GREAT LAKES.

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TABLE L.—STATEMENT SHOWING THE INCREASE IN THE DETAILS OF BUSINESS DONE AT THE ST. MARYS FALLS CANAL IN 1888 AND 1889.

ITEMS.	Unit of fact.	NUMBER AND AMOUNT.		INCREASE.	
		1888	1889	Number and amount.	Per cent.
Vessels	Number.....	7,803	9,579	1,776	23
Lockage	Number	3,845	4,684	839	22
Tonnage, registered	Net tons	5,130,659	7,221,935	2,091,276	41
Tonnage, freight	Net tons	6,411,423	7,516,022	1,104,599	17
Passengers	Number	25,558	25,712	154	1

TABLE M.—STATEMENT SHOWING THE INCREASE AND DECREASE IN THE AMOUNT OF THE VARIOUS COMMODITIES PASSING THE ST. MARYS FALLS CANAL DURING 1888 AND 1889.

ITEMS.	Unit of measurement.	QUANTITY.		INCREASE.		DECREASE.	
		1888	1889	Amount.	Per cent.	Amount.	Per cent.
Coal (hard and soft)	Net tons.....	2,105,041	1,629,197	.....	.....	475,844	23
Flour	Barrels	2,190,725	2,228,707	37,982	2	.....	.....
Wheat	Bushels	18,596,351	16,231,854	.....	.....	2,364,497	13
Other grain	Bushels	2,022,308	2,133,245	110,937	5	.....	.....
Manufactured iron	Net tons	48,859	31,545	.....	.....	17,314	35
Pig iron	Net tons	14,844	26,016	11,172	75	.....	.....
Salt	Barrels	210,433	168,250	.....	.....	42,183	20
Copper	Net tons	28,960	33,456	4,496	16	.....	.....
Iron ore	Net tons	2,570,517	4,095,855	1,525,338	59	.....	.....
Lumber	M. ft. B. M.	240,372	315,554	75,182	31	.....	.....
Silver ore and bullion	Net tons	3,385	5,947	2,562	76	.....	.....
Building stone	Net tons	33,541	33,538	.....	.....	3	.....
Unclassified freight	Net tons	345,854	312,410	.....	.....	33,444	10

TABLE N.—STATEMENT SHOWING THE INCREASE AND DECREASE IN THE VALUE OF THE VARIOUS COMMODITIES PASSING THE ST. MARYS FALLS CANAL DURING 1888 AND 1889.

ITEMS.	Unit of measurement.	Price per unit.	TOTAL VALUATION.		Increase in value.	Decrease in value.
			1888	1889		
Coal	Net tons.....	\$3.50	\$7,367,644	\$5,702,190	.....	\$1,665,454
Flour	Barrels	5.00	10,953,625	11,143,535	\$189,910	.....
Wheat	Bushels	0.98	18,224,424	15,907,217	.....	2,317,207
Other grain	Bushels	0.98	1,981,862	2,090,580	108,718	.....
Manufactured iron	Net tons	50.00	2,442,950	1,577,250	.....	865,700
Pig iron	Net tons	17.00	252,348	442,272	189,924	.....
Salt	Barrels	1.00	210,433	168,250	.....	42,183
Copper	Net tons	200.00	5,792,000	6,691,200	899,200	.....
Iron ore	Net tons	3.50	8,996,810	14,335,493	5,338,683	.....
Lumber	M. ft. B. M.	18.00	4,326,696	5,679,972	1,353,276	.....
Silver ore	Net tons	153.79	520,579	914,589	394,010	.....
Building stone	Net tons	10.00	335,410	335,380	.....	30
Unclassified freight	Net tons	60.00	20,751,240	18,744,600	.....	2,006,640
Total .....	.....	.....	82,156,021	83,732,528	8,473,721	6,897,214
Net increase .....	.....	.....	.....	.....	1,576,507	.....

QUANTITIES AND VALUES.—It will be observed that the increase in the amount of iron ore transported in 1889 over that transported in 1888 was no less than 1,525,338 tons, figures which are actually greater than the total increase of freight moved during the season, that increase being 1,104,599 tons. The figures 1,525,338 tons are, however, diminished or offset by a decrease in both the coal and wheat traffic. The decrease in the coal traffic amounted to 475,844 tons, or 23 per cent, and was probably owing to a lighter demand for the mineral, due to the preceding mild winter. It should be stated that in the valuations which are put on the freight the same prices per unit are employed for both the years 1888 and 1889, as it is believed that this method affords a better basis for comparing the business year by year than if the prices were amended to conform to each annual quotation.

The total number of vessels, 9,579, which is set down as the record of those passing through the canal in 1889, includes 6,501 steamers, 2,635 sailing vessels, and 443 unregistered craft in tow.

The unclassified freight, it will be observed, has been brought down to 4 per cent of the total freight movement, and even this small percentage may be reduced by the statement that it includes 2,946 tons of wool and 304 tons of hides.

No returns had been received up to the time of writing of a sufficiently recent date to be available for the construction of a detailed comparative table for 1889 and 1890, but the following statement of the business of the canal for the fiscal year ending June 30, 1890, will show that the steady increase of business marking the preceding years would surely attend the report for the completed season of 1890, while the statement immediately following it (Table P) will show by totals the uninterrupted growth of the canal's commercial importance for the 4 calendar years 1887-1890, inclusive:

TABLE O.—STATEMENT OF THE BUSINESS OF THE ST. MARYS FALLS CANAL DURING THE FISCAL YEAR ENDED JUNE 30, 1890.

NUMBER AND CLASS OF VESSELS PASSED.	
Side-wheel steamers.....	76
Propellers.....	6,806
Sailing vessels.....	2,834
Rafts and unregistered craft.....	392
Total passages.....	10,108

FREIGHT AND PASSENGER TRAFFIC.	
Coal (net tons).....	1,894,483
Copper (net tons).....	36,086
Flour (barrels).....	2,592,736
Wheat (bushels).....	19,459,736
Other grain (bushels).....	2,732,698
Iron ore (net tons).....	4,404,935
Pig and manufactured iron (net tons).....	72,163
Salt (barrels).....	5,905
Lumber (feet, board measure).....	308,032,000
Building stone (net tons).....	40,829
Wool (net tons).....	2,597
Hides (net tons).....	455
Miscellaneous and unclassified freight (net tons).....	344,425
Number of passengers.....	24,125
Total registered tonnage (net tons).....	7,899,604
Total freight tonnage (net tons).....	8,288,580
Total registered tonnage since opening the canal in 1855 (net tons).....	56,539,876

TABLE P.—STATEMENT SHOWING THE COMPARATIVE TOTALS OF THE ST. MARYS FALLS CANAL FOR THE YEARS 1887, 1888, 1889, AND 1890.

YEARS.	TONNAGE PASSED THROUGH.		Valuation of cargoes.	Cost of water carriage.	Cost per ton-mile.	Value of the fleet.
	Registered vessel tonnage.	Net tons actual freight.				
1887.....	4,897,598	5,494,649	\$79,031,757	\$10,075,153	2.3 mills.	\$19,773,950
1888.....	5,130,659	6,411,423	82,156,021	7,883,077	1.5 mills.	21,895,400
1889.....	7,221,935	7,516,022	83,732,528	8,634,246	1.5 mills.	26,926,200
1890.....	8,454,435	9,041,213	102,214,948	9,472,214	1.3 mills.	29,635,500

By comparing the freight tonnage given in Table O as passing through the St. Marys Falls canal with the total receipts and shipments by Lake Superior ports it will be noticed that the canal tonnage exceeds the figures given in Table 7, the canal tonnage being 8,288,580 tons, while the Lake Superior tonnage stands at only 7,925,930, a difference of 362,650 tons. This is due in part to the fact that the year covered by the canal report is made up of the last 6 months of the year 1889 and the first 6 months of the year 1890, while the year from which the lake report is made is composed of the 12 months ending December 31, 1889, and it will be remembered that the winter embraced within the fiscal year 1889-1890 was a remarkably open one, thus permitting a late fall and an early spring trade. The discrepancy referred to is also partly explained by the fact that the tables of receipts and shipments for Lake Superior do not include the traffic between Canadian ports, and consequently take no account of the lake commerce of the Canadian Pacific railway originating at Port Arthur and passing through the canal. Some idea of the extent of this commerce may be gained from the fact that of the wheat passing through the canal during the lake navigation season of 1889 not less than 2,603,539 bushels are known to have been shipped from Port Arthur, while it is believed that the total shipments from that port may have been as high as 3,000,000 bushels, or 90,000 tons.

The statement for the fiscal year of 1889-1890 is particularly interesting because it rounds up the period of 35 years, which date back to the opening of the canal in 1855. The statistics of freight movement have not been kept with sufficient exactness for that number of years to give reliable details, but the records show that for the 35 years of its existence ending June 30, 1890, there had passed through the canal no less than 56,539,876 tons of freight. It is no less interesting to find that of this aggregate 35,588,389 tons, or about five-eighths of the whole, had passed since the opening of the new lock, September 1, 1881. The statement for the fiscal year 1889-1890 also includes the interesting but unspecified fact that during the last month of the fiscal year (June, 1890) the amount of freight which passed through the canal was 1,413,001 tons, the largest monthly amount on record, and that on one day in the same year, May 26, 1890, there passed through 74,686 tons of freight, this being the largest daily amount ever recorded. From 7:10 a. m., May 25, to 5:58 a. m., May 27, 1890, a period of 46 hours and 48 minutes, the lock was constantly in motion. These figures show that the limit of the present canal's capacity is being rapidly approached. In fact, it was seen as long ago as 1886 that the ultimate capacity of the canal would be reached in a very few years, and a still further enlargement was then proposed, which is now in progress. This will consist of a lock 800 feet long by 100 feet wide, with a depth of 21 feet on the sills, a lift of 18 feet (the full descent of St. Marys Falls), and the deepening of the canal to 20 feet. The new lock is to be placed upon the site of the two old ones, which lie between the present lock and the river, and will be used in connection with that now in operation. The cost of the enlargement is estimated at \$4,738,865; the time for its execution was set for 5 years, and when finished it will be the largest single lock in the world. If on the completion of this enlargement the traffic of the canal takes such an upward bound as it did after the second enlargement, and there is no reason to doubt that it will, it seems certain that its traffic returns will still more distinctly lead those of the Suez canal than they do now.

OPERATIONS AND EARNINGS.—Among the various facts and figures which have been gathered at the canal as the "statistical key" to so large a portion of the lake traffic, none are more interesting than those of the earnings and operations of the craft passing the canal. In order to determine the total amount paid for the lake transportation of the freight carried through the canal during the season of 1889, a calculation of the freight rates between Lake Superior and the lower lake ports was made from the results of a diligent collection of data by the United States Army engineers in charge, and this adopted mean rate was applied to the amounts of freight passing the canal with the result seen in the following table, which shows the total cost of carrying the freight; or, to put it in another way, it shows the gross earnings of the various vessels made by the transportation of the indicated freight:

TABLE Q.—STATEMENT SHOWING THE FREIGHT RATE PER UNIT OF THE SEVERAL COMMODITIES CARRIED THROUGH THE ST. MARYS FALLS CANAL DURING THE SEASON OF 1889, TOGETHER WITH THE TOTAL AMOUNTS PAID FOR THE MOVEMENTS OF THE TOTAL COMMODITIES.

ARTICLES.	Unit.	Quantity.	Freight rate per unit.	Amount paid for freighting.
Total				\$8,634,246.63
Coal	Ton	1,629,197	\$0.47	765,722.59
Flour	Barrel	2,228,707	0.18	401,167.26
Wheat	Bushel	16,231,854	0.04	649,274.16
Other grain	Bushel	2,133,245	0.03½	69,330.46
Manufactured iron	Ton	31,545	2.10	66,244.50
Pig iron	Ton	26,016	1.45	37,723.20
Salt	Barrel	168,250	0.18	30,285.00
Copper	Ton	33,456	2.25	75,276.00
Iron ore	Ton	4,095,855	1.14	4,669,274.70
Lumber	M feet, B. M. ..	315,554	2.70	851,995.80
Silver ore and bullion	Ton	5,947	1.90	11,299.30
Building stone	Ton	33,538	2.07	69,423.66
General merchandise	Ton	312,410	3.00	937,230.00

The nature of the data from which the preceding table was formed was such that it included cost of loading and unloading.

Put into a condensed form the results obtained were as follows:

Total mile-tons	5,940,646,352
Total freight paid	\$8,634,246.63
Cost per ton-mile	mills.. 1.5
Average distance freight was carried	miles.. 790.4

CANADIAN AND AMERICAN TONNAGE.—It has been said that the returns of tonnage made for the canal embrace both American and Canadian craft, and in the following statement a segregation of these is made, it being understood that the number of vessels given represents the actual number of craft which passed the canal during the year 1889, counted only as a fleet, and not as a repetitive aggregate:

TABLE R.—STATEMENT SHOWING THE NUMBER, TONNAGE, AND VALUE, AND PASSENGER AND FREIGHT TRAFFIC OF AMERICAN AND CANADIAN CRAFT PASSING THROUGH THE ST. MARYS FALLS CANAL IN THE SEASON OF 1889.

CRAFT.	Number.	Vessel tonnage.	Freight tonnage.	Number of passengers.	Valuation of vessels.
Total	581	394, 727	7, 516, 022	25, 712	\$26, 989, 389
American vessels	521	371, 264	7, 254, 309	13, 740	25, 391, 789
Steamers (registered).....	308	250, 959	4, 964, 724	13, 740	20, 947, 500
Sail vessels (registered).....	208	118, 595	2, 253, 900	.....	4, 381, 100
Sail vessels (unregistered).....	5	a1, 710	a35, 685	.....	a63, 189
Canadian vessels	60	23, 463	261, 713	11, 972	1, 597, 600
Steamers (registered).....	37	15, 422	211, 075	11, 972	1, 385, 000
Sail vessels (registered)	23	8, 041	50, 638	.....	212, 600

a Estimated.

The following facts regarding this canal may be stated in conclusion:

The comparatively small average distance which freight was carried in 1889 is because in that year there was a falling off in the transportation of wheat, already referred to, and an increase in that of ore, which is a shorter distance freight.

The greatest number of miles run by any one steamer during 1889 was 33,344, by the propeller Athabaska.

The greatest amount of freight carried and the greatest number of mile-tons to the credit of any one vessel during the season was by the freight propeller Northern Wave, which amounted to 59,001 net tons of freight and 58,311,447 mile-tons.

The largest single cargo carried by a steamer was 2,839 net tons, by the freight propeller Pontiac.

The largest single cargo carried by any vessel was by the lumber barge Wahnapatæ, and consisted of 2,030,000 feet, board measure, green lumber, estimated at 4,060 tons.

DETROIT RIVER AND CANAL.

Just as the St. Marys Falls canal stands as the statistical key to the commerce entering and leaving Lake Superior, so the Detroit river stands between that of Lake Erie and the upper lakes. In the case of the St. Marys Falls canal a very large portion of the traffic was that which owes its origin to Lake Superior and the northwest territory, while in the case of Detroit river all the lakes can be said to be brought under contribution. A description of the improvements which have been made by the United States Army Corps of Engineers in and about Detroit river will be found in that portion of the text which may be considered as an annotation on the table of congressional appropriations. As to the commerce of American craft which passes through Detroit river, the round figures for the navigation season of 1889 are 90,000 tons of registered tonnage per day, or nearly 20,000,000 tons per year. The exact figures for the 234 days of navigation, which made up that season, are set down in the following summary, it being understood that the figures of number and tonnage are the aggregates of every day's record:

TABLE S.—STATEMENT SHOWING THE NUMBER AND TONNAGE OF THE VESSELS PASSING THROUGH DETROIT RIVER DURING THE SEASON OF 1889, WITH A SEGREGATION BY NATIONALITIES.

NATIONALITIES.	Number.	Tonnage.
Total	59, 737	36, 203, 606
American	32, 415	19, 646, 000
Canadian	27, 322	16, 557, 606

The figures of comparison between the Canadian traffic of the seasons of 1888 and 1889 are not at hand, but from the returns made of the commerce in American bottoms it is found that the increase in the number of vessels passing Detroit river in 1889 over 1888 was 1,011, while the increase in the tonnage was 546,940 tons.

The freight movement through the river for the year in American craft is given by principal commodities in the following table, and it is an interesting point to note how close is the total of freight traffic to that of the

total of vessel tonnage, namely, 19,717,860 tons of freight to 19,646,000 tons of tonnage, which is the aggregate of the registered tonnage of the 32,415 American vessels which passed and repassed through the river in the process of carrying the freight in question:

TABLE T.—STATEMENT SHOWING THE ESTIMATED WEIGHT IN TONS OF THE FREIGHT PASSING THROUGH DETROIT RIVER IN AMERICAN VESSELS FOR THE SEASON OF 1889.

Barley.....	38, 294
Coal.....	5, 313, 419
Corn.....	1, 777, 750
Flour.....	655, 395
Iron ore.....	6, 610, 293
Lumber.....	2, 545, 792
Laths.....	23, 699
Oats.....	262, 896
Pig iron.....	94, 337
Salt.....	47, 737
Shingles.....	27, 668
Wheat.....	824, 451
Other grain.....	105, 412
Miscellaneous.....	1, 390, 717
Total.....	19, 717, 860

THE WELLAND CANAL.

The third great canal to be mentioned when considering the facilities of intercommunication between the lakes, and which occupies a position in their statistical economy almost equal in importance to that of the St. Marys Falls canal and Detroit river, is the Welland canal, connecting Lake Erie and Lake Ontario. The present Welland canal is so different in many of its features to the old Welland canal that it is known as and practically is a new canal. It starts from Port Colborne, on Lake Erie, at the head of Gravelly bay, and reaches a summit level near Allanburg, from which point to Port Dalhousie, on Lake Ontario, a distance of 12 miles, there are 25 lift locks and regulating weirs, piers, and abutments for 12 road and 2 railroad bridges, 6 culverts to carry water courses under the canal and 1 for a public road, and a tunnel for the Great Western railroad. The engineering difficulties were largely encountered in this northern division, although in the southern division, which embraces the 15 miles between Port Colborne and Allanburg, the canal is crossed by 6 road and 3 railroad bridges, including an aqueduct of large dimensions through the Chippewa river, a lock at Welland, and another with 4 sets of gates at Port Colborne. The money expended on the undertaking up to 1889 amounted to \$23,787,950, since which time the amount has been raised to nearly \$25,000,000. Close statistics can not be given of the traffic conducted through the Welland canal, the work being under the control of the Canadian government, but it is stated by Mr. W. A. Livingstone, of Detroit, in his pamphlet entitled "The Great Lakes Problem", that the total traffic of actual freight in 1890 through the Welland canal was 1,016,165 net tons; that the quantity passing eastward through the canal from United States ports to United States ports had increased from 96,226 tons in 1881 to 318,259 tons in 1890, and that the increase in this movement in 1890 over that of 1880 was 20,906 tons.

The whaleback steamers of the American Steel Barge Company are the largest vessels that have passed through the Welland canal, and they are 265 feet long, 38 feet beam, and have an average draft of 15 feet when loaded.

CONGRESSIONAL APPROPRIATIONS.

The earliest appropriation made by the government for the improvement of the harbors of the Great Lakes and river St. Lawrence was in 1823, when an appropriation was made for the survey of Erie harbor of Pennsylvania. Since that time nearly 150 localities, scattered over the Great Lakes and St. Lawrence and Niagara rivers, have been improved under congressional aid. The sums appropriated up to the close of 1890 amounted to \$40,912,975, of which amount \$23,700,565 was appropriated up to and including 1879, \$12,999,165 was included in the decade marked by 1880-1889, inclusive, the remaining \$4,213,245 having been appropriated by the act of Congress of September, 1890.

For the improvement of the various harbors and shipping points on Lake Superior there has been appropriated \$9,233,300, the earliest appropriation going back to 1858, between which time and the close of 1879 there was appropriated \$3,467,555, the sum of \$3,738,500 having been appropriated from 1880 to 1889, and \$2,027,245 by the act of Congress of September, 1890.

For Lakes Huron and St. Clair the appropriations have been \$3,691,700, of which amount \$1,934,310 was appropriated from 1852 to the close of 1879, \$1,511,890 for the decade ending with 1889, and \$245,500 by the act of Congress of September, 1890.

The appropriations for the improvement of Lake Michigan ports have been \$11,251,243, the earliest appropriation being in 1826, for La Plaisance bay, when that harbor was improved by the expenditure of \$19,803. The act of Congress of September, 1890, allotted \$893,000 for the improvement of all the lake points; but the largest appropriations were made up to and including 1879, by which time \$6,440,843 of the public moneys had been granted for the lake improvements, while for the period 1880-1889 the appropriations amounted to \$3,917,400.

The appropriations for Lake Erie began the earliest of all the lakes, the first, as was noted in the previous paragraph, being made in 1823. The total amount appropriated for this lake up to the close of 1890 was \$8,879,336, of which amount by far the largest portion, \$5,362,336, was appropriated by the close of 1879, the appropriations for the years 1880-1889 being \$2,712,500, and the sum granted by the act of Congress of September, 1890, being \$804,500.

Lake Ontario's appropriations have amounted to \$3,592,730, of which amount \$2,581,855 was appropriated up to the close of 1879, \$895,875 during the 10 years ending 1889, and \$115,000 by the 1890 act of Congress.

On the improvements of St. Lawrence river there has been expended \$251,506 and on those of Niagara river the appropriations have amounted to \$233,598.

Between the sum of these amounts, however, and the \$40,912,975 given as the total appropriation for the Great Lakes there is a difference of \$3,779,562, that sum being made up by general appropriations for which there was no indication of special locality, but which were made for such comprehensive purposes as general survey, chart making, and the building of survey steamers and dredging machines.

In the assignment of appropriations made in the preceding paragraphs the lakes have been made the recognized divisions, but when charged to the states which lie around the lakes the amounts stand as set down in the following statement:

TABLE U.—STATEMENT SHOWING THE AMOUNTS APPROPRIATED BY CONGRESS FOR THE SURVEY, IMPROVEMENT, AND MAINTENANCE OF THE HARBORS OF THE GREAT LAKES AND ST. LAWRENCE RIVER, GIVEN BY PERIODS AND ALLOTTED TO THE RESPECTIVE STATES IN WHICH THE HARBORS LIE.

STATES.	Date of earliest appropriation.	Appropriations up to and including 1879.	Appropriations from 1880 to 1889, inclusive.	Appropriations by act of Congress September, 1890.	Total appropriations up to date.
Total		\$23, 700, 565	\$12, 999, 165	\$4, 213, 245	\$40, 912, 975
Minnesota	1871	271, 050	413, 750	147, 350	832, 150
Wisconsin	1836	2, 408, 881	1, 483, 000	472, 395	4, 364, 276
Michigan	1826	7, 266, 398	5, 790, 390	2, 298, 500	15, 355, 288
Illinois	1833	1, 426, 005	1, 120, 400	205, 000	2, 751, 405
Indiana	1836	679, 889	381, 250	57, 500	1, 118, 639
Ohio	1825	2, 580, 987	1, 658, 500	429, 500	4, 668, 987
Pennsylvania	1823	616, 367	235, 500	40, 000	891, 867
New York	1826	4, 729, 426	1, 858, 375	563, 000	7, 150, 801
General appropriations, all states....	1836	3, 721, 562	58, 000	.....	3, 779, 562

For convenience of reference the following list of harbors and trading points which have been improved by government aid has been prepared, the localities being grouped under the titles of the lakes on which they are found, with the state of each locality added:

IMPROVED HARBORS AND RIVERS.

LAKE SUPERIOR.

Agate bay, Minnesota.
Ashland harbor, Wisconsin.
Duluth harbor, Minnesota.
Eagle harbor, Michigan.
Grand Marais harbor, Minnesota.
Grand Marais harbor of refuge, Michigan.
Marquette harbor, Michigan.
Ontonagon harbor, Michigan.
Portage Lake ship canal, Michigan.
St. Marys river and St. Marys Falls canal, Michigan.
Superior and St. Louis bays, Wisconsin.

LAKES HURON AND ST. CLAIR.

Alpena harbor (Thunder bay), Michigan.
Au Sable river and harbor, Michigan.
Belle river, Michigan.
Black river, Michigan.

LAKES HURON AND ST. CLAIR—continued.

Cheboygan harbor, Michigan.
Clinton river, Michigan.
Clinton harbor, Michigan.
Detroit river, Michigan.
Harbor of refuge at Sand beach, Michigan.
St. Clair river flats and canal, Michigan.
Saginaw river, Michigan.
Sebawaing harbor, Michigan.

LAKE MICHIGAN.

Ahnapee harbor, Wisconsin.
Black Lake harbor, Michigan.
Calumet harbor and river, Illinois.
Cedar river (Green bay), Michigan.
Charlevoix harbor, Michigan.
Chicago harbor, Illinois.
Fox river, mouth of, Wisconsin.
Frankfort harbor, Michigan.

LAKE MICHIGAN—continued.

Grand Haven harbor, Michigan.
Grand river, Michigan.
Green Bay harbor, Wisconsin.
Kenosha harbor, Wisconsin.
Keweenaw harbor, Wisconsin.
Lake Winnebago, Wisconsin.
La Plaisance bay, Michigan.
Ludington harbor, Michigan.
Manistee harbor, Michigan.
Manistique harbor, Michigan.
Manitowoc harbor, Wisconsin.
Menominee harbor, Wisconsin.
Michigan city (outer harbor), Indiana.
Michigan city (inner harbor), Indiana.
Milwaukee bay, Wisconsin.
Milwaukee harbor, Wisconsin.
Muskegon harbor, Michigan.
New Buffalo harbor, Michigan.

IMPROVED HARBORS AND RIVERS—Continued.

LAKE MICHIGAN—continued.

Oconto harbor, Wisconsin.
 Pensaukee harbor, Wisconsin.
 Pentwater harbor, Michigan.
 Petoskey harbor, Michigan.
 Port Washington, Wisconsin.
 Portage Lake harbor of refuge, Michigan.
 Racine harbor, Wisconsin.
 St. Josephs harbor, Michigan.
 St. Josephs river (survey), Michigan.
 Saugatuck harbor, Michigan.
 Sheboygan harbor, Wisconsin.
 South Haven harbor, Michigan.
 Sturgeon bay, Wisconsin.
 Two Rivers harbor, Wisconsin.
 Waukegan harbor, Illinois.
 White river harbor, Michigan.

LAKE ERIE.

Ashtabula harbor, Ohio.
 Black river harbor, Ohio.
 Buffalo harbor, New York.

LAKE ERIE—continued.

Cattaraugus creek, New York.
 Cleveland harbor, Ohio.
 Conneaut harbor, Ohio.
 Cunningham creek, Ohio.
 Dunkirk harbor, New York.
 Erie harbor, Pennsylvania.
 Grand river harbor (Fairport), Ohio.
 Huron river and harbor, Ohio.
 Monroe harbor, Michigan.
 Port Clinton harbor, Ohio.
 Portland harbor, New York.
 Rocky river harbor, Ohio.
 Rouge river, Michigan.
 Sandusky city harbor, Ohio.
 Sandusky river, Ohio.
 Toledo harbor, Ohio.
 Vermilion river, Ohio.

LAKE ONTARIO.

Black river (Sacketts harbor), New York.
 Charlotte harbor, New York.

LAKE ONTARIO—continued.

Great Sodus bay, New York.
 Little Sodus bay, New York.
 Oak Orchard harbor, New York.
 Olcott harbor, New York.
 Oswego harbor, New York.
 Port Ontario harbor, New York.
 Pultneyville harbor, New York.
 Sacketts harbor, New York.
 Sandy creek, New York.
 Wilson harbor, New York.

ST. LAWRENCE RIVER.

Grass river, New York.
 Ogdensburg harbor, New York.
 Sister islands, New York.
 Waddington harbor, New York.

NIAGARA RIVER.

Black Rock harbor, New York.
 Tonawanda harbor, New York.

The importance of the improvement of the shipping facilities of these waters is so undoubted that no excuse is needed for giving space to the subject, and in addition to this bare list of the localities that have been improved the following statement takes up this list and shows what has been done under the appropriations:

LAKE SUPERIOR.

AGATE BAY, MINNESOTA.—This is a small indentation in the north shore of the lake, and though it has ample depth of water it is not protected on the southwest or from the reverse swells of the more dangerous storms of the northeast. The little security it afforded, however, was sufficient to warrant the construction of extensive docks for the handling of ore and other merchandise. The commerce soon grew out of all proportion to the size of the harbor, and for its security it was found necessary to supplement the natural protection by artificial means. Two piers projecting from either shore have accordingly been proposed, and though only one has been partly built the tranquillity of the harbor has been greatly increased by it.

ASHLAND HARBOR, WISCONSIN.—This harbor comprises a portion of Chequamegon bay. It was not thoroughly protected from the storm waves which rolled into its mouth, or from the waves generated by the bay itself, and a breakwater has been accordingly built of about 4,700 feet long, in order to give the requisite shelter. This length is hardly sufficient to afford protection to all the wharves of the city, and it is accordingly proposed to extend it 5,000 feet further.

DULUTH HARBOR, MINNESOTA.—The proposed plan to improve this harbor, which lies at the head of Lake Superior, is to cut a canal through the narrow strip of land or sand bar known as Minnesota point, thus uniting the waters of the bay and Lake Superior, to be followed by the construction of a breakwater parallel to this bar. But little has been done, however, on these projects in consequence of a disputed ownership of the land.

EAGLE HARBOR, MICHIGAN.—This harbor was improved not so much to further commerce as to provide a harbor of refuge. The improvements have consisted of cutting a channel of good depth through a ledge which obstructed the entrance to the bay.

GRAND MARAIS HARBOR, MINNESOTA.—On the north shore of Lake Superior there are very few localities where safe anchorage for vessels is to be found, and Grand Marais offers the only place of refuge for vessels during storms between Agate bay and Pigeon river. It is not yet a shipping port of any importance, though it is not distant from the rich deposits of iron ore of the Vermilion range. The improvements have consisted of dredging the harbor basin and the construction of a pier and breakwater.

GRAND MARAIS HARBOR OF REFUGE, MICHIGAN.—This harbor is accessible only for vessels drawing less than 9 feet, but once within the bay there is ample depth to float the largest vessels. As a harbor of refuge it is of pressing necessity to the shipping navigating the lakes in this vicinity, as the many wrecks in the neighborhood bear witness. The project for the improvement of this harbor has been the creation of a safe entrance to the bay for vessels of the largest size, formed by establishing crib piers sheltering a channel of 300 feet in width.

MARQUETTE HARBOR, MICHIGAN.—The improvement of this harbor has consisted in the erection of a breakwater projecting from the shore into the bay a distance of 2,000 feet. The area of commerce is so rapidly increasing, however, that the extension of the breakwater has become a necessity.

ONTONAGON HARBOR, MICHIGAN.—This harbor is formed by the mouth of the river of the same name, and it has fairly deep water, but its mouth is obstructed by a bar. The project of improvement was to build out parallel piers into the lake on either side of the river's mouth with the expectation that the confined current of the river would scour out a good channel through the bar. The expectation, however, has not been fully realized.

PORTAGE LAKE SHIP CANAL, MICHIGAN.—The appropriation of 1886 was for the examination of the Portage Lake and Lake Superior ship canals, with a view to accept the offer of the company to transfer all their rights to the United States for \$350,000. These canals being the water communication across Keweenaw point, Lake Superior, from Keweenaw bay to Lake Superior, in the state of Michigan. The appropriation of 1890 was for the purchase of these canals.

ST. MARYS RIVER AND ST. MARYS FALLS CANAL, MICHIGAN.—The improvement here consists of two parts: first, that of obtaining a 16-foot navigation as an approach to the canal, and second, the construction of the canal itself, about a mile in length, which overcomes by its lockage system a difference of level between lakes Superior and Huron of about 18 feet. So enormous has traffic grown over this route that the old locks have been replaced by a single one 515 feet long and 80 feet wide, which in its turn is to be replaced by a new one 800 feet long and 100 feet wide.

SUPERIOR AND ST. LOUIS BAYS, WISCONSIN.—The natural channel connecting these 2 bays with Lake Superior is at the southeastern extremity of Minnesota point, referred to in the paragraph concerning Duluth. Channels have been dredged through the bays to this outlet, which is protected by crib piers having an aggregate length of 5,650 feet.

LAKES HURON AND ST. CLAIR.

ALPENA HARBOR, THUNDER BAY, MICHIGAN.—The important and rapidly growing city of Alpena is situated at the mouth of Thunder Bay river, from which prior to the commencement of the government improvements there was a navigable channel into the bay of 12 feet depth and variable width. This has been improved to a channel of good navigable width and of 14 feet uniform depth.

AU SABLE RIVER AND HARBOR, MICHIGAN.—Before the beginning of improvements the mouth of Au Sable river was 150 feet wide, with a depth of 5 feet over the bar. The project for the improvement of the harbor has been to obtain a channel between the lake and the harbor of not less than 10 feet in depth and 100 feet in width.

BELLE RIVER, MICHIGAN.—The projects of improvement here have been to construct an ice harbor of refuge and the formation of a channel from the mouth of the river to the lake.

BLACK RIVER, MICHIGAN empties into St. Clair river at Port Huron, Michigan. At and below its mouth, extending beyond the middle of St. Clair river, there is a bar, and the improvement has been the dredging of a channel through this obstruction.

CHEBOYGAN HARBOR, MICHIGAN.—Prior to undertaking any improvement at this harbor only 7 feet of water could be carried across the bar at the mouth of the river, and the project of government improvement has been the formation of a channel 200 feet wide and 14 feet deep.

CLINTON RIVER AND HARBOR, MICHIGAN.—In 1870 the channel over the bar at the entrance to the river afforded a depth of only 3.5 feet, while the depth of the river for some distance above was 10 feet, and the government improvement has consisted of securing a navigable depth of 8 feet through the bar.

DETROIT RIVER, MICHIGAN.—Originally the channel at the entrance to Detroit river could not be depended upon for more than 18 feet of water, the ordinary depth being much affected by the direction of the wind. The government project of improvement has consisted of securing and maintaining a channel 400 feet wide and 20 feet deep.

HARBOR OF REFUGE AT SAND BEACH, MICHIGAN.—Before 1876, vessels when caught in heavy weather near the dangerous Pointe Aux Barques (the southern headland of the mouth of Saginaw bay) were compelled to run a distance of 60 miles and find a refuge in St. Clair river, whence, after the subsidence of the storm, those upward bound had to work their way back again. The project of improvement is for the construction of a harbor of refuge at Sand beach.

ST. CLAIR RIVER FLATS AND CANAL, MICHIGAN.—Before the construction of the canal the St. Clair river emptied into Lake St. Clair through 7 principal mouths or passes, that ordinarily used by vessels being known as the south channel, having a minimum depth of a little less than 11 feet. The St. Clair Flats canal was projected in 1866, with a view to obtaining a straight channel 13 feet deep and 330 feet wide across the flats east of the mouth of this south channel, the work being finished in 1871. The canal is bounded on each side by a dike 7,221 feet long, or an aggregate of 14,442 feet. In 1873 the channel was deepened to 16 feet by dredging for a width of 200 feet, the width being thus limited by the fact that the slope of the dikes did not admit of dredging to 16 feet for the full width of 300 feet. The present project of improvement is to protect the face of the dikes in such a way that the full width of the channel may be dredged to a uniform depth of 20 feet.

SAGINAW RIVER, MICHIGAN.—Before any improvements were made the entrance to this river was obstructed by a bar about a mile from the shore; and thence to the head of the river, a distance of about 16 miles, the channel was obstructed by a number of other bars. The project of improvement was to dredge out a channel which would have a uniform depth of 10 feet.

SEBEWAING HARBOR, MICHIGAN lies at the mouth of the river of the same name, and the improvements have consisted of the formation and protection of a navigable channel from it into Saginaw bay.

LAKE MICHIGAN.

AHNAPEE HARBOR, WISCONSIN, is a small artificial harbor constructed for local purposes in the mouth of Ahnapee river, and has been formed by the usual process of dredging out a channel and the erection of protecting piers.

BLACK LAKE HARBOR, MICHIGAN, was to have been formed by the completion of a protected channel connecting it with Lake Michigan, but no adequate appropriations for the purpose have been secured. It has a length of 5 miles, an average width of about half a mile, and a navigable depth from end to end of only 4 fathoms. The town of Holland, a thriving place with a population of 3,945, is built at the head of the lake.

CALUMET HARBOR AND RIVER, ILLINOIS.—The object of this improvement was to provide a deep entrance to Calumet river and the port of South Chicago, in order both to increase the commercial facilities of that place and to give relief to Chicago itself.

CEDAR RIVER (GREEN BAY), MICHIGAN.—The harbor of Cedar river is located in the mouth of the river itself, and the improvement of the locality has been effected by dredging out and protecting a navigable channel from the harbor into Green bay.

CHARLEVOIX HARBOR, MICHIGAN, lying between Grand and Little Traverse bays, is formed by Round lake, a picturesque body of water about half a mile long and a quarter of a mile wide, upon the banks of which the town is built. Adjoining it on the land side is Pine lake, and the official project of improvement provides for a navigable channel of good dimensions from Lake Michigan into Round lake and thence into Pine lake.

CHICAGO HARBOR, ILLINOIS.—The improvements of Chicago harbor have consisted, first, of the formation of the outer harbor or basin by including a portion of Lake Michigan just south of and adjoining the entrance to Chicago river, for the purpose of increasing the harbor facilities of the port and to give relief to the overcrowded river, and, second, the construction of an exterior breakwater to shelter the entrance to Chicago river and the outer harbor from northerly storms, and to form a sheltered area or harbor of refuge at the southern end of Lake Michigan. A subsidiary project has been the protection of the entrance to Chicago river by piers.

FOX RIVER (MOUTH OF), WISCONSIN.—This river empties into Green bay. The improvements form a part of the extensive project mentioned under the head of Green Bay harbor, Wisconsin.

FRANKFORT HARBOR, MICHIGAN, is really the little Lake Aux Bees Scies, lying south of Point Betsey, one of the important headlands on the east coast. Separating the little lake from the big one lies a sand spit, and the project of improvement has been to cut a channel through this obstruction.

GRAND HAVEN HARBOR, MICHIGAN, is both a harbor of local importance and of special status as a harbor of refuge for general commerce. The improvements have been the confinement of the volume of water flowing out of Grand river, thus providing an entrance of good width and depth.

GRAND RIVER, MICHIGAN.—The projected work here is that of improving the navigation of the river from Grand Rapids to its mouth at Grand Haven.

GREEN BAY HARBOR, WISCONSIN.—The improvements of Green bay, which lies at the mouth of Fox river, form a part of the original and much more extensive project which was to secure a cheap route of transportation from Mississippi river to the Great Lakes, and also to the Atlantic seaboard via Wisconsin river, Lake Winnebago, Neenah river, Fox river, and Green bay. All the items of appropriation which are set down for these various localities may be considered as having been expended in the survey for or the furtherance of this comprehensive project.

KENOSHA HARBOR, WISCONSIN, is situated at the mouth of Pike creek, and the project of improvement is the usual one of the formation and protection of a navigable channel between the harbor and Lake Michigan.

KEWANEE HARBOR, WISCONSIN, is situated at the mouth of Kewanee river, the improvements being of that character which have been already once or twice described.

LAKE WINNEBAGO, WISCONSIN.—The improvements for this lake form a part of the extensive project mentioned under the head of Green Bay harbor, Wisconsin.

LA PLAISANCE BAY, MICHIGAN.—The nineteen thousand and odd dollars set down as the appropriations for the improvement of this place were expended from 1826 to 1836, and were used to form and protect a safe entrance to the bay. The bay is of no present importance.

LUDINGTON HARBOR, MICHIGAN.—Ludington is built about the lower end of Pere Marquette lake, which is 9 or 10 miles long and half a mile in average width. A harbor of refuge has been established in the construction of protecting piers from Lake Michigan to deep water in the inner lake.

MANISTEE HARBOR, MICHIGAN, is on Manistee lake, and the improvement has consisted of enlarging and protecting the channel between it and Lake Michigan.

MANISTIQUE HARBOR, MICHIGAN.—The improvement here has been of that kind so often described, to secure and maintain a navigable channel from Lake Michigan to the mouth of Manistique river where the harbor of Manistique is situated.

MANITOWOC HARBOR, WISCONSIN.—A similar project of improvement.

MENOMINEE HARBOR, WISCONSIN.—A similar project of improvement.

MICHIGAN CITY, INDIANA.—The appropriation acts make a distinction between the outer harbor and the inner harbor, separate provision being made for each. The inner harbor, where all the shipping business is done, and which in fact furnishes all the harbor facilities that exist, consists of Trail creek, which winds through the town and which has been dredged landward for a distance of nearly 1.5 miles from the mouth, where piers on each side 100 feet apart projecting into the lake protect the entrance. The outer harbor, so called, consists of several works constructed at different dates and designed for the protection of the general lake commerce, in view of the great development of the shipping industries and the exposed location of the harbor at the head of the lake.

MILWAUKEE BAY AND HARBOR, WISCONSIN.—So far as the bay is concerned the project of improvement has been that of securing anchorage for vessels engaged in the general commerce of the lakes by inclosing its northern section within a breakwater, while the improvement of Milwaukee harbor has been that of gaining and maintaining a navigable channel from Lake Michigan into Milwaukee river, which is really the inner harbor of Milwaukee.

MUSKEGON HARBOR, MICHIGAN.—Muskegon is the principal coast city on the east shore of the lake and the leading one in population and products. It is situated on Lake Muskegon, a body of water about 5 miles long and 1.5 miles in width, into which Muskegon river flows and thence to Lake Michigan through a natural channel maintained by an overflow. The official project had in view the extension of piers and revetments to such a distance into Lake Michigan as to secure a 15-foot navigation, and this result has approximately been attained, although additional development is needed to the works to counteract the formation of the bar outside the entrance. Muskegon is claimed by local authorities to be the largest lumber manufacturing town in the United States, its annual products being 600,000,000 feet of lumber, 500,000,000 shingles, and 175,000,000 lath.

NEW BUFFALO HARBOR, MICHIGAN.—The improvements of this harbor, which lies just above the Indiana state line, were all made between 1852 and 1872, and were of the usual character belonging to lake harbors.

OCONTO HARBOR, WISCONSIN, lies at the mouth of Oconto river, which empties into Green bay, and the project of improvement has been to secure a navigable channel from Green bay up Oconto river to the city.

PENSAUKEE HARBOR, WISCONSIN.—The conditions here are so similar to those of Oconto that they need not be detailed.

PENTWATER HARBOR, MICHIGAN.—The town of Pentwater is built at the lower end of Pentwater lake, which is about 2.5 miles long and half a mile wide. The official project connects the inner lake with Lake Michigan by a 12-foot channel protected by piers and revetments 150 feet apart. As in nearly all similar cases, the full depth has not been reliably secured or maintained, the wave action in Lake Michigan tending to the deposit of sand between the piers, while the piers themselves, from their comparatively open character, permit the wash and drift of sand through them from the beaches.

PETOSKEY HARBOR, MICHIGAN.—Petoskey is a small village of 2,872 people, occupying a picturesque site on the bluffs overlooking Little Traverse bay, and near its head. The bluffs descend almost vertically to the narrow gravel beach of the bay, which here is fully exposed to the winds from the north and northeast. The present and prospective business of the place is small, and it is chiefly noted as a popular summer resort and for its fine specimens of agate, while, being at the terminus of an important railroad, it is a point of departure to numerous like resorts in the neighborhood of the straits of Mackinaw. During high winds from the north and west these vessels find it difficult to make a landing at the one small dock of Petoskey, and at times find it impossible to do so, when they seek shelter in the commodious natural harbor 3 miles across the bay. This harbor, known as Harbor Springs, is one of the harbors of refuge on the lakes, and therefore the project of building a harbor of refuge at Petoskey has been adversely reported on and the construction of a breakwater only has been recommended.

PORT WASHINGTON, WISCONSIN, consists of two small interior and connected basins, and the object of the improvement has been to secure a navigable channel entrance from Lake Michigan by parallel piers extending from the shore line to 10 feet of water in the lake.

PORTAGE LAKE HARBOR OF REFUGE, MICHIGAN, is a considerable body of water, 3.5 miles long by 1 mile in width, situated nearly midway of the 55 miles of concave coast between Point Betsey and Grande Pointe Au Sable. There is no harbor south of Frankfort in the length of this stretch except the Manistee entrance, which has neither the width nor depth adequate to make it available as a harbor of refuge for general commerce, and

many disasters to shipping have occurred. For this reason the official project for Portage lake, under which appropriations have been made since 1879, provided for the construction of a passage through the narrow beach separating Portage lake from Lake Michigan, with a width of 400 feet and a depth of 18 feet, dimensions which are the same as at Grand Haven and which would render the harbor suitable for all lake vessels needing shelter.

RACINE HARBOR, WISCONSIN.—Both the city and harbor of Racine are situated at the mouth of Root river, and the object of the improvements has been the construction and maintenance of a channel 18 feet deep and 160 feet wide from the harbor into the lake.

ST. JOSEPH HARBOR AND RIVER, MICHIGAN.—Where St. Joseph and Pawpaw rivers unite the water area extends into a basin about half a mile in length by one-sixth of a mile in width, which is designated St. Joseph harbor, and as such has been under improvement by the United States since 1836, partly for the benefit of local commerce, but more especially as a harbor of refuge for general commerce. The official project has provided for an entrance with a depth of 16 feet, protected by piers on each side, with an average width of 270 feet.

SAUGATUCK HARBOR, MICHIGAN, is formed at the mouth of Kalamazoo river, and the improvements have been of the usual nature described in speaking of those other localities where the necessity has existed for maintaining a navigable channel.

SHEBOYGAN HARBOR, WISCONSIN, is formed at the mouth of Sheboygan river, and the improvements are those of forming and maintaining a navigable channel of good dimensions from the lake to the harbor.

SOUTH HAVEN HARBOR, MICHIGAN.—The official project for this harbor, which is the mouth of Black river where the town of South Haven is situated, calls for a 12-foot navigable channel with an extreme width of 108 feet.

STURGEON BAY, WISCONSIN.—The object of the government improvements here has been to form a harbor of refuge inclosing the Lake Michigan entrance to Sturgeon Bay and Lake Michigan ship canal, and also to afford a safe entrance to the canal in rough weather.

TWO RIVERS HARBOR, WISCONSIN, is situated at the mouth of the Twin rivers, and the improvements have been those of the usual kind described as being necessary under similar conditions.

WAUKEGAN HARBOR, ILLINOIS.—The character of the improvement of this harbor is somewhat different from that of other points on the Great Lakes. Most of the improvements have consisted in deepening the mouths of streams emptying into the lake, but at Waukegan there is only a creek emptying into the lake, and it is of no importance for harbor purposes. The project of improvement here, therefore, has been to construct an exterior basin of sufficient capacity to meet the requirements of local trade by inclosing a portion of Lake Michigan within sheltering piers.

WHITE RIVER HARBOR, MICHIGAN.—White lake is about 4.5 miles long by three-fourths of a mile wide, and the towns of Whitehall and Montague are built on its upper or eastern end, where White river enters the lake and discharges through it into Lake Michigan. The official project connects the 2 lakes by a 12-foot channel between piers and revetments 200 feet apart.

LAKE ERIE.

ASHTABULA HARBOR, OHIO.—The original project for the improvement of this harbor was adopted in 1826, at which time there was a depth of only 2 feet of water on the bar. As the result of this improvement there is now a protected channel of 17 feet between the harbor and the lake.

BLACK RIVER HARBOR, OHIO.—Black river, Ohio, is formed by two branches nearly equal in size which unite about 8 miles from the town of Lorain, where the river empties into Lake Erie. The project of improvement, commenced in 1828 and maintained from time to time as the demands of commerce called for, provides for a protected channel between the harbor and the lake 16 feet in depth.

BUFFALO HARBOR, NEW YORK.—Up to 1868 Buffalo harbor and Buffalo creek may be considered to have been synonymous terms. The earliest record of which there is any trace as to the condition of this harbor was in 1818, at which time the mouth of the creek was most of the year closed by a gravel bar which was cut out by freshets and then closed up again. From that time a number of improvements have been carried out until to-day the present works consist of (1) a pier on the north side of Buffalo creek, known as the North pier; (2) a pier on the south side of the creek, known as the South or Lighthouse pier; (3) a detached breakwater, to be when finished 7,800 feet long, with a shore arm, to be when finished 4,100 feet long; (4) a pile pier, built for a sand catch and eventually to form a part of the shore arm of the breakwater; (5) a sea wall of masonry to protect the shore from the waves of the lake.

CATTARAUGUS CREEK, NEW YORK.—The improvements here, all of which were effected between the years 1826 and 1836, were simply for the improvement of the harbor, which is really the mouth of the creek.

CLEVELAND HARBOR, OHIO, is situated at the mouth of Cuyahoga river. The improvements, which are the outcome of many projects, have resulted in a protected channel of good depth, 200 feet wide, running out to the depth of 16 feet in the lake, and the formation of a harbor of refuge.

CONNEAUT HARBOR, OHIO, which lies at the mouth of the creek of the same name, has been improved by the removal of a bar which obstructed navigation and by the formation of a protected channel.

CUNNINGHAM CREEK, OHIO.—The work of improvement at this place has been of the same nature as that described for Conneaut harbor.

DUNKIRK HARBOR, NEW YORK.—The improvement of this harbor was commenced in 1827, and the original project was much the same as that of the existing improvements, which comprise the formation of an artificial harbor in front of the city.

ERIE HARBOR, PENNSYLVANIA.—The object of the improvement here has been to protect the harbor from severe winds from the east and northeast, and to obtain and maintain a channel between deep water in the harbor and the open lake 16 feet deep at low water and of good navigable width.

GRAND RIVER HARBOR (FAIRPORT), OHIO, which is officially known as Fairport, has been improved by the construction and maintenance of a protected channel 200 feet wide through a sand bar. Fairport is now the third harbor on the list of Lake Erie harbors in the amount of ore received, and owing to the increased size of vessels at present in use on the lake in this traffic an increased depth to 18 feet is stated to be necessary.

HURON RIVER AND HARBOR, OHIO.—The improvements here are precisely of the same character as those that have been effected at all other localities where the entrance to the harbor has been obstructed by a bar.

MONROE HARBOR, MICHIGAN, is situated at the extreme western end of Lake Erie, about 1.5 miles west of the mouth of Raisin river, and about 3.5 miles from the town of Monroe. The improvements were commenced here in 1835, when Raisin river was considered an important stream and Monroe a place of increasing commerce. The work done has consisted in straightening the river, making direct connection with Lake Erie through a sand peninsula by a channel 4,000 feet long and 100 feet wide.

PORT CLINTON, OHIO, is situated at the mouth of Portage river, and the improvements have consisted of the same work of making and maintaining a channel which has been so frequently described.

PORTLAND HARBOR, NEW YORK.—The improvements here were all carried out from 1836 to 1844.

ROCKY RIVER HARBOR, OHIO.—The improvements of Rocky River harbor have consisted of the formation and protection of a navigable channel from the mouth of the harbor to deep water in the lake.

ROUGE RIVER, MICHIGAN, is somewhat remarkable for the depth of the water in its lower reaches, a channel of 11 feet over the bar at its mouth being in existence, and the improvements have consisted in dredging out the stream up to its junction with Detroit river.

SANDUSKY CITY HARBOR AND SANDUSKY RIVER, OHIO.—Sandusky bay empties into or rather opens on Lake Erie about 40 miles from its western extremity. It has a natural harbor containing an area of about 22.5 miles, a depth of from 8 to 12 feet, and is protected on the north and northwest by a long, narrow peninsula, and on the northeast by Cedar point. The project of improvement has included the construction of a channel 200 feet wide and 15 feet deep through the outer bar and up to the city front. The Sandusky river empties into Sandusky bay about 14.5 miles from Cedar point, and the improvement of the river has been the dredging out of a 9-foot channel from the city of Fremont, the head of navigation, 17 miles from the mouth of the river, to a 9-foot depth in the bay.

TOLEDO HARBOR, OHIO.—The city of Toledo is situated at the mouth of Maumee river, which empties into Maumee bay about 7 miles from the deep water of Lake Erie. The improvements here have consisted mainly of the construction and maintenance of a straight channel from the mouth of the river to deep water in Lake Erie.

VERMILION RIVER, OHIO.—Vermilion river, the mouth of which constitutes Vermilion harbor, empties into Lake Erie, about 20 miles to the east of Sandusky city, and the improvements have resulted in the construction of a channel of good depth between the harbor and lake.

LAKE ONTARIO.

BLACK RIVER (SACKETTS HARBOR), NEW YORK.—The improvements here may be said to be for the mouth of this river, which empties into Sacketts harbor.

CHARLOTTE HARBOR, NEW YORK.—The improvements here have resulted in securing a navigable channel at the mouth of Genessee river.

GREAT SODUS BAY, NEW YORK.—The improvements here have resulted in securing a navigable channel of 15 feet in depth from Lake Ontario to the bay.

LITTLE SODUS BAY, NEW YORK.—The plan of improvement here has been the same as that described at Great Sodus bay.

OAK ORCHARD HARBOR, NEW YORK.—A protected channel 200 feet wide and 12 feet deep has been secured as the result of the government improvements here.

OLCOTT HARBOR, NEW YORK.—The improvements here have resulted in obtaining a channel 11 feet deep between Lake Ontario and the deep water in Eighteen Mile creek, where Olcott harbor lies.

OSWEGO HARBOR, NEW YORK.—The object of the improvements here has been to provide a basin of sufficient size and depth for the needs of commerce at the mouth of Oswego river and to secure and maintain a navigable channel into said basin and river from the lake.

PORT ONTARIO HARBOR, NEW YORK.—The improvements at this harbor, which lies at the mouth of Salmon river, were of little importance, and were all effected between the years 1836 and 1844.

PULTNEYVILLE HARBOR, NEW YORK.—The improvements here differ somewhat from those so often described in that they had for their object the formation of a harbor by protecting breakwaters.

SACKETTS HARBOR, NEW YORK.—The improvements here may be said to embrace both those which have directly affected the harbor and those which have been applied to Black river, which empties into the harbor. The harbor improvements have consisted of dredging out a large area to a good depth and the checking of drifting material, while the improvements of the river have consisted of deepening and maintaining a navigable channel.

SANDY CREEK, NEW YORK.—The appropriations made for this place were for the survey of its mouth with a view to constructing a harbor at this place. The project, however, was not carried into effect.

WILSON HARBOR, NEW YORK, is situated at the mouth of Twelve Mile creek, and the object of the improvement has been to secure a 12-foot channel between it and Lake Ontario.

ST. LAWRENCE RIVER.

GRASS RIVER, NEW YORK.—The project of the improvement here contemplated the formation of a channel from St. Lawrence river to Massena village, a distance of 7 miles, with a minimum width of 40 feet and a least depth of about 4 feet.

OGDENSBURG HARBOR, NEW YORK.—When operations were commenced at this harbor in 1868 the channel afforded depths of 5 to 12 feet only, and now there are 3 channels from deep water in St. Lawrence river to the nearest docks or wharves, in which water from 15 to 16 feet deep is afforded, and a channel from 12 to 15 feet deep has been made along the city front.

SISTER ISLANDS, NEW YORK.—This appropriation was made by the act of 1890 for the improvement of the shoal between Sister islands and the Cross-over light.

WADDINGTON HARBOR, NEW YORK.—The appropriations for the improvement of Waddington harbor closed in 1881, by which time the project of opening a channel through a bar at the head of the river which forms Waddington harbor was completed.

NIAGARA RIVER.

BLACK ROCK HARBOR, NEW YORK.—The improvements of Black Rock, which lies at the outlet of Lake Erie, were conducted between the years 1829 and 1834, and consisted of the dredging out of a navigable channel of good dimensions.

TONAWANDA HARBOR, NEW YORK.—The improvement here has embraced the formation of a navigable channel from the entrance of Niagara river at Lake Erie to the north end of Tonawanda river, the channel to be 400 feet wide and 18 feet in depth.

INCREASE AND IMPROVEMENT.

From the figures given it will have been seen that the total cost of all the harbor and river improvements up to the close of 1890 amounted to \$40,912,975, but, large as this sum is, it has been contended that the saving effected by the transportation through the lake marine more than pays back this amount to the country in a single season. The calculation made in support of this argument runs somewhat as follows:

According to the computation made by Mr. Keep the average distance over which freight was carried during 1889 was 566 miles. It will not, therefore, be going far outside the probabilities to assume that this distance was the average also for 1890, and on that assumption the total ton-mileage for 1890 was 18,849,681,384 ton-miles, while that for 1889 was 15,542,507,160.

According to the various reports of the principal transportation agencies freight rates on these waters during the year 1890 varied from 3.5 mills per ton-mile to 0.3 mill per ton-mile, the former rate being received on certain high class "package freight" and the latter being the rate on coal over a certain route. The great bulk of the "gross freight" was carried at less than 1 mill per ton-mile, and it is probable that the average rate on all freight was about 1.1 mills per ton-mile. Assuming, however, that it was as high as 1.2 mills, the cost of the total water transportation for 1890 was \$22,619,618.

An instructive lesson in comparative statistics is gathered from the fact that the total ton mileage of all the railroads in the United States for the year ending June 30, 1890, was 76,207,047,298 ton-miles, so that the ton-mileage of the Great Lakes and river St. Lawrence for the same year being, as has been seen, 18,849,681,384 ton-miles, the lake ton-mileage was 24.73 per cent of the ton-mileage of all the railroads of the United States. In

other words, it would have required 24.73 per cent of the entire railway freight equipment of the railroads in the United States to have transported by rail the cargoes carried by lake vessels in 1890, and this, it must be remembered, is based on the calculation that each of the transportation agencies was employed during the same period of time, while as a matter of fact the railroads ran for 12 months and the lake season extended over but 234 days, or less than 8 months.

REDUCTION IN FREIGHT RATES.

The question of reduction in freight rates is indeed a most interesting one, and it is especially so in the case of grain. In 1859, for instance, it cost an average of 15.75 cents to carry a bushel of corn from Chicago to Buffalo by lake. In 1871 the rate had fallen to 7.50 cents per bushel, while in 1890 it only cost 1.88 cents per bushel. In 1867 it cost an average of \$4.25 to carry a ton of iron from Escanaba to Erie, in 1870 it cost \$2.50 for the same service, while in 1890 the rate was as low at one time as \$0.55, with an average of \$0.82 per ton.

A valuable record of the most representative freight rates has been prepared by Mr. W. A. Livingstone, and will be found embodied in the subjoined tables. The titles of these tables are, generally speaking, sufficiently indicative of the matter presented, but one or two explanations are needed, which can be better given in this prefatory manner than in the form of footnotes. It should be understood, for example, that the rate of any previous date held good until the succeeding date when the new rate was made; that the ore rates in the first table include the unloading of the ore, paid by the vessel, and are the rates per gross ton, and that the averages given in all cases are the calculated averages of all the daily rates, and are not the average rates at which the freight was carried:

ORE RATES FROM THE PORTS NAMED TO LAKE ERIE PORTS.

1890

DATES.	Escanaba.	Marquette.	Ashland.	DATES.	Escanaba.	Marquette.	Ashland.
April 10	\$1.00	\$1.25	\$1.35	August 15	\$0.85	\$1.00	\$1.00
April 15	0.90	1.20	1.30	October 1	0.85	1.00	1.10
May 5	0.90	1.15	1.25	October 15	0.90	1.00	1.10
May 20	0.85	1.15	1.20	November 4	1.00	1.10	1.15
May 29	0.85	1.10	1.20	November 12	1.15	.....	1.30
July 20	0.85	1.10	1.15	November 25	1.15	.....	1.70
July 24	0.85	1.10	1.10	Average daily rates	0.890	1.072	1.156
July 30	0.85	1.05	1.10	Season contract rates	1.100	1.250	1.350
August 9	0.85	1.05	1.05				

1891

May 7	\$0.70	.....	\$0.90	August 29	\$0.85	\$1.00	\$1.10
May 11	0.65	.....	0.90	September 1	0.90	1.05	1.15
May 20	0.60	\$0.80	0.90	September 4	0.95	1.10	1.15
May 25	0.55	0.80	0.90	September 5	1.00	1.10	1.15
June 10	0.55	0.80	0.80	September 22	1.05	1.20	1.30
June 22	0.60	0.80	0.80	September 26	1.00	1.20	1.30
June 23	0.65	0.80	0.80	September 29	0.95	1.15	1.30
June 24	0.65	0.90	0.90	October 1	0.95	1.10	1.30
July 7	0.65	0.90	1.00	October 3	0.90	.....	.....
July 14	0.70	0.95	1.00	October 5	0.85	1.00	1.20
July 20	0.75	1.00	.....	October 7	0.80	1.00	1.10
July 23	0.80	1.00	.....	October 10	0.75	0.95	1.00
July 24	0.85	0.95	1.05	October 12	0.75	0.85	0.95
July 30	0.85	1.05	1.10	October 14	0.75	0.95	1.00
July 31	0.90	1.10	1.20	October 22	0.80	1.00	1.10
August 3	0.95	1.15	1.25	October 30	0.90	1.15	1.40
August 4	1.10	1.25	1.35	November 4	1.00	1.25	1.50
August 6	1.00	1.10	1.20	November 6	1.20	1.30	1.50
August 8	0.95	1.10	1.15	November 18	1.30	.....	.....
August 12	0.90	1.10	1.10	November 19	1.35	.....	.....
August 14	0.95	1.10	1.15	Average daily rates	0.825	1.004	1.070
August 15	1.00	1.15	1.15	Season contracts made on June 4	0.650	0.900	0.900
August 17	0.90	1.10	1.15				
August 20	0.90	1.05	1.15				

TRANSPORTATION ON THE GREAT LAKES.

43

RATE OF FREIGHT, PER BUSHEL, ON CORN FROM CHICAGO TO BUFFALO.

1890

	CENTS.		CENTS.		CENTS.
March 7.....	2.875	May 27.....	1.500	September 5.....	1.500
March 14.....	3.250	June 5.....	1.750	September 12.....	1.750
March 25.....	3.500	June 10.....	2.000	September 29.....	2.000
April 3.....	3.250	June 27.....	2.250	October 14.....	1.875
April 5.....	2.875	June 28.....	2.125	October 16.....	1.500
April 11.....	2.500	July 8.....	2.000	October 22.....	1.250
April 14.....	2.250	July 23.....	2.875	October 25.....	1.500
April 15.....	2.000	July 24.....	1.500	November 6.....	1.250
April 25.....	1.750	July 25.....	1.750	November 18.....	1.500
April 26.....	1.500	July 30.....	1.500	November 19.....	1.750
April 28.....	1.250	July 31.....	1.000	November 20.....	1.500
April 30.....	1.500	August 1.....	1.250	November 21.....	2.000
May 2.....	1.750	August 9.....	1.375	November 28.....	3.000
May 3.....	1.500	August 16.....	1.250	December 3.....	3.000
May 20.....	1.250				

1891

	CENTS.		CENTS.		CENTS.
April 10.....	2.000	August 7.....	2.750	October 5.....	1.750
April 17.....	1.750	August 10.....	2.500	October 23.....	2.000
May 2.....	1.500	August 11.....	2.250	October 26.....	2.250
May 8.....	1.250	August 14.....	2.500	October 30.....	2.500
May 9.....	1.125	September 2.....	2.750	October 31.....	2.750
May 13.....	1.000	September 4.....	3.000	November 4.....	3.250
June 29.....	1.250	September 10.....	3.250	November 5.....	3.750
July 7.....	1.375	September 12.....	3.000	November 6.....	4.000
July 13.....	1.500	September 15.....	3.250	November 12.....	3.750
July 14.....	1.750	September 25.....	3.000	November 19.....	4.500
July 28.....	2.250	September 28.....	2.750	November 21.....	4.250
July 30.....	2.750	September 30.....	2.500	November 28.....	4.500
July 31.....	3.000	October 3.....	2.250	December 2.....	4.500

AVERAGES OF DAILY RATES, PER BUSHEL, FOR 6 YEARS.

	CENTS		CENTS.		CENTS.
1886.....	3.40	1888.....	2.50	1890.....	1.88
1887.....	3.90	1889.....	2.25	1891.....	2.13

STATISTICS OF TRANSPORTATION.

RATE OF FREIGHT, PER BUSHEL, ON WHEAT FROM DULUTH TO BUFFALO.

1890

	CENTS.		CENTS.		CENTS.
March 28	3.750	June 13	2.250	September 15	2.500
April 11	3.500	June 14	2.000	September 22	2.750
April 23	3.250	June 21	2.500	November 15	3.000
May 7	3.000	June 24	2.750	November 22	4.000
May 10	2.875	June 27	2.500	November 24	4.500
May 13	3.000	July 8	2.750	November 26	5.000
June 3	2.750	July 10	2.500	November 28	5.500
June 5	2.500	July 30	2.250		

1891

	CENTS.		CENTS.		CENTS.
March 16	2.875	August 1	3.000	October 26	4.000
March 18	2.750	August 5	3.500	November 2	4.250
March 24	2.500	August 6	3.250	November 3	5.000
April 22	2.250	September 8	3.500	November 5	5.250
May 9	2.000	September 10	3.750	November 6	6.000
May 16	1.750	September 15	4.000	November 7	7.000
May 18	1.500	September 28	3.500	November 9	7.500
May 20	1.250	October 6	3.250	November 19	8.000
June 9	1.750	October 8	3.000	November 20	8.500
June 12	1.500	October 10	2.500	November 21	9.250
June 13	2.000	October 19	2.750	November 23	9.500
July 7	2.250	October 20	3.000	November 25	9.250
July 13	2.500	October 21	3.500	November 28	9.250

RATES, PER NET TON, FOR CARRYING COAL FROM BUFFALO TO THE PORTS NAMED.

1890				1891			
DATES.	Duluth.	Milwaukee.	Chicago.	DATES.	Duluth.	Milwaukee.	Chicago.
April 16	\$0.40	\$0.40	\$0.40	April 14	\$0.40	\$0.50	\$0.60
April 21	0.35	0.50	0.50	May 11	0.40	0.60	0.60
April 30	0.35	0.50	0.60	July 18	0.40	0.50	0.50
May 5	0.40	0.50	0.60	July 20	0.30	0.50	0.50
May 21	0.35	0.50	0.60	August 12	0.40	0.50	0.50
June 13	0.40	0.50	0.60	August 28	0.30	0.50	0.50
September 3	0.30	0.50	0.60	September 2	0.30	0.40	0.40
November 3	0.40	0.60	0.75	September 15	0.25	0.40	0.40
November 9	0.60	0.60	0.75	September 26	0.25	0.50	0.50
November 11	0.75	0.75	0.75	October 28	0.25	0.50	0.60
November 28	0.75	0.75	1.00	October 29	0.25	0.60	0.60
				November 10	0.10	0.60	0.60
				November 18	0.10	0.75	0.75
				November 28	0.10	1.00	0.75
Average rate	0.394	0.521	0.611	Average rate	0.318	0.545	0.557

GENERAL RESULTS.

In the progress of this text the history of transportation on the Great Lakes and river St. Lawrence has been traced from its early beginnings to the year 1890; the comparative statistics of the decade of 1880 and 1889, inclusive, have been treated with some fullness, and much space has been devoted to a review of the industry in its positive form of a report for the period covered by the Eleventh Census. The matter can therefore well be brought to the review standpoint by a consideration of the general results of the traffic, results which have a strong social and political as well as commercial bearing. The extraordinary growth of the country is certainly one of the most striking features in the history of the United States, and it is also certain that one of the pre-eminent factors in making this growth possible has been the rapid extension of the water transportation systems of the Mississippi valley and the lacustrine system. It will show a closer parallelism between the increase of the importance of lake traffic and that of population, if one considers the growth of population in the cities found either directly on the lake shore or situated within a 50-mile zone encircling the lakes. In the whole of the United States there are 448 cities and towns having a population of 8,000 and over, and of these 448 no less than 204 are found in the 8 states to which reference has been made, while within the zone which has been outlined there lie 57 of such cities. The population of the 448 large cities of the United States was 18,284,385 in 1890, that of the 204 cities in the 8 lake states was 10,137,747, while that of the 57 cities lying within the 50-mile zone was 3,184,357, which figures, together with those showing the increase per city for the census year 1880 over that of 1890, are shown in the following table:

TABLE V.—STATEMENT SHOWING THE POPULATION IN 1880 AND 1890 OF CITIES OF 8,000 INHABITANTS AND OVER, LOCATED WITHIN A RADIUS OF 50 MILES OF THE GREAT LAKES AND ST. LAWRENCE RIVER.

LOCALITIES.	1890	1880	LOCALITIES:	1890	1880
Lake Superior.....	75,344	14,212	Lake Michigan—Continued.		
Ashland, Wisconsin.....	9,956		Muskegon, Michigan.....	22,702	11,262
Duluth, Minnesota.....	33,115	3,483	Oshkosh (Lake Winnebago), Wisconsin.....	22,836	15,748
Ishpeming, Michigan.....	11,197	6,039	Racine, Wisconsin.....	21,014	16,031
Marquette, Michigan.....	9,093	4,690	Sheboygan, Wisconsin.....	16,359	7,314
Superior, Wisconsin.....	11,983				
Lakes Huron and St. Clair.....	337,078	204,477	Lake Erie.....	822,318	509,142
Ann Arbor, Michigan.....	9,431	8,061	Adrian, Michigan.....	8,756	7,849
Alpena, Michigan.....	11,283	6,153	Akron, Ohio.....	27,601	16,512
Bay city, Michigan.....	27,839	20,693	Ashtabula, Ohio.....	8,338	4,445
Detroit, Michigan.....	205,876	116,340	Buffalo, New York.....	255,664	155,134
Flint, Michigan.....	9,803	8,409	Cleveland, Ohio.....	261,353	160,146
Port Huron, Michigan.....	13,543	8,883	Dunkirk, New York.....	9,416	7,248
Saginaw, Michigan.....	46,322	29,541	Erie, Pennsylvania.....	40,634	27,737
West Bay city, Michigan.....	12,981	6,397	Findlay, Ohio.....	18,553	4,633
Lake Michigan.....	1,622,462	799,945	Jamestown (Lake Chautauqua), New York.....	16,038	9,357
Appleton, Wisconsin.....	11,869	8,005	Mansfield, Ohio.....	13,473	9,859
Aurora, Illinois.....	19,688	11,873	Meadville, Pennsylvania.....	9,520	8,860
Chicago, Illinois.....	1,099,850	503,185	Sandusky, Ohio.....	18,471	15,838
Elgin, Illinois.....	17,823	8,787	Titusville, Pennsylvania.....	9,046	8,073
Fond du Lac (Lake Winnebago), Wisconsin.....	12,024	13,094	Toledo, Ohio.....	81,434	50,137
Green Bay, Wisconsin.....	9,069	7,464	Tiffin, Ohio.....	10,801	7,879
Grand Rapids, Michigan.....	60,278	32,016	Youngstown, Ohio.....	33,220	15,435
Joliet, Illinois.....	23,264	11,657	Lake Ontario and St. Lawrence river.....	327,155	230,952
Iron Mountain, Michigan.....	8,599		Auburn, New York.....	25,858	21,924
Kankakee, Illinois.....	9,025	5,651	Lockport, New York.....	16,038	13,522
Kalamazoo, Michigan.....	17,853	11,937	Ogdensburg, New York.....	11,662	10,341
Manistee, Michigan.....	12,812	6,930	Oswego, New York.....	21,842	21,116
Marinette, Wisconsin.....	11,523	2,750	Rome, New York.....	14,991	12,194
Menominee, Michigan.....	10,630	3,288	Rochester, New York.....	133,896	89,366
Michigan, Indiana.....	10,776	7,366	Syracuse, New York.....	88,143	51,792
Milwaukee, Wisconsin.....	204,468	115,587	Watertown, New York.....	14,725	10,697

Remarkable as has been the increase of this urban population, generally considered, the reader can not fail to note the extraordinary fact that 3 of these large cities, Ashland, Superior, and Iron Mountain, have sprung into existence during the decade 1880–1890, while Duluth's growth has been from so small a beginning to so large a result that it can almost be considered in the same category. This practical creation of 4 populous cities is mainly if not entirely due to the development in the production of iron ore in the Lake Superior and Lake Michigan districts. In this connection the figures in the following paragraph, which have been compiled from official returns, are at once pertinent and instructive.

In 1889 there were 592 iron-ore producing mines in the United States which reported to the bureau of statistics, of which 89 were in the Lake Superior district. The product of the 592 mines was 14,518,041 long tons of ore, which, at an average value of \$2.30 per ton, means a total value of \$33,351,978. The product of the Lake Superior district amounted to 6,693,568 tons, valued at \$16,641,429. The port of Escanaba does not appear in the preceding list of cities having a population of over 8,000, but it undoubtedly belongs to the list of those cities whose growth is due almost entirely to lake traffic in iron ore. From this port 3,364,067 tons of iron ore were shipped in 1889 and 4,171,210 tons in 1890. During the same year Bilbao, in Spain, shipped 4,272,918 tons, but as Bilbao is an open port for the whole year, its shipments were at the rate of 356,077 tons per month, while the lake port, being open but 10 months in the year, shipped at the rate of 417,121 tons per month, making Escanaba, therefore, the greatest ore port in the world.

LAKE LANDINGS AND DISTANCES.

As in the case of the report on the rivers of the Mississippi valley, this text can not be brought to a better conclusion than by giving a list of the principal trading points on the Great Lakes and St. Lawrence river, with the distances from port to port:

LAKE AND RIVER LANDINGS BETWEEN OGDENSBURG AND DULUTH (DISTANCES FROM OGDENSBURG).

	MILES.		MILES.		MILES.
Cape Vincent, Lake Ontario.....	68	Sand Beach, Lake Huron.....	615	Marquette, Lake Superior.....	997
Kingston, Lake Ontario (Canada)...	69	Goderich, Lake Huron (Canada)....	616	Green Bay, Lake Michigan.....	1,002
Oswego, Lake Ontario.....	115	Oscoda, Lake Huron.....	666	Sheboygan, Lake Michigan.....	1,017
Fair Haven, Lake Ontario.....	134	Tawas, Lake Huron.....	672	Copper Harbor, Lake Superior.....	1,027
Charlotte, Lake Ontario.....	158	Saginaw river, Lake Huron.....	700	Muskegon, Lake Michigan.....	1,043
Toronto, Lake Ontario (Canada)....	222	Alpena, Lake Huron.....	709	Grand Haven, Lake Michigan.....	1,045
Port Dalhousie, Lake Ontario (Canada).....	330	Cheboygan, Lake Huron.....	787	L'Anse, Lake Superior.....	1,054
Port Colborne, Lake Erie (Canada)...	256	Mackinac, Lake Huron.....	794	Houghton, Lake Superior.....	1,058
Buffalo, Lake Erie.....	276	Owen sound, Lake Huron (Canada)...	800	Milwaukee, Lake Michigan.....	1,062
Erie, Lake Erie.....	321	Collingwood, Lake Huron (Canada)...	818	St. Joseph, Lake Michigan.....	1,102
Ashtabula, Lake Erie.....	358	Midland, Lake Huron (Canada)....	827	Ontonagon, Lake Superior.....	1,109
Cleveland, Lake Erie.....	412	Sault Ste. Marie, Lake Superior.....	838	Chicago, Lake Michigan.....	1,132
Sandusky, Lake Erie.....	458	Traverse, Lake Michigan.....	897	Port Arthur, Lake Superior (Canada)...	1,108
Toledo, Lake Erie.....	491	Escanaba, Lake Michigan.....	935	Bayfield, Lake Superior.....	1,173
Detroit, Detroit river (Lake St. Clair)...	493	Manistee, Lake Michigan.....	950	Ashland, Lake Superior.....	1,186
Port Huron, St. Clair river (Lake Huron).....	553	Ludington, Lake Michigan.....	978	Duluth, Lake Superior.....	1,235
		Manitowoc, Lake Michigan.....	993		

LAKE AND RIVER LANDINGS BETWEEN BUFFALO AND OGDENSBURG (DISTANCES FROM BUFFALO).

Port Colborne, Lake Erie (Canada)...	20	Charlotte, Lake Ontario.....	127	Kingston, Lake Ontario (Canada)...	207
Toronto, Lake Ontario (Canada)....	77	Fair Haven, Lake Ontario.....	180	Cape Vincent, Lake Ontario.....	208
Port Dalhousie, Lake Ontario (Canada).....	97	Oswego, Lake Ontario.....	190	Ogdensburg, St. Lawrence river.....	276

LAKE AND RIVER LANDINGS BETWEEN BUFFALO AND DULUTH (DISTANCES FROM BUFFALO).

Erie, Lake Erie.....	80	Alpena, Lake Huron.....	471	Sheboygan, Lake Michigan.....	779
Ashtabula, Lake Erie.....	116	Cheboygan, Lake Huron.....	549	Copper Harbor, Lake Superior.....	789
Cleveland, Lake Erie.....	174	Mackinac, Lake Huron.....	556	Muskegon, Lake Michigan.....	805
Put in Bay, Lake Erie.....	215	Owen sound, Lake Huron (Canada)...	562	Grand Haven, Lake Michigan.....	807
Sundusky, Lake Erie.....	217	Collingwood, Lake Huron (Canada)...	580	L'Anse, Lake Superior.....	816
Toledo, Lake Erie.....	252	Midland, Lake Huron (Canada)....	589	Houghton, Lake Superior.....	820
Detroit, Detroit river (Lake St. Clair)...	255	Sault Ste. Marie, Lake Superior.....	600	Milwaukee, Lake Michigan.....	824
Port Huron, St. Clair river (Lake Huron).....	315	Traverse, Lake Michigan.....	658	St. Joseph, Lake Michigan.....	864
Sand Beach, Lake Huron.....	377	Escanaba, Lake Michigan.....	697	Port Arthur, Lake Superior (Canada)...	870
Goderich, Lake Huron (Canada)....	378	Manistee, Lake Michigan.....	712	Ontonagon, Lake Superior.....	871
Oscoda, Lake Huron.....	428	Ludington, Lake Michigan.....	739	Chicago, Lake Michigan.....	889
Tawas, Lake Huron.....	434	Manitowoc, Lake Michigan.....	755	Bayfield, Lake Superior.....	935
Saginaw river, Lake Huron.....	463	Marquette, Lake Superior.....	759	Ashland, Lake Superior.....	948
		Green Bay, Lake Michigan.....	764	Duluth, Lake Superior.....	997

LAKE AND RIVER LANDINGS BETWEEN CLEVELAND AND OGDENSBURG (DISTANCES FROM CLEVELAND).

Ashtabula, Lake Erie.....	56	Port Dalhousie, Lake Ontario (Canada)...	193	Oswego, Lake Ontario.....	326
Erie, Lake Erie.....	99	Toronto, Lake Ontario (Canada)....	212	Kingston, Lake Ontario (Canada)...	343
Port Colborne, Lake Erie (Canada)...	156	Charlotte, Lake Ontario.....	273	Cape Vincent, Lake Ontario.....	344
Buffalo, Lake Erie.....	174	Fair Haven, Lake Ontario.....	316	Ogdensburg, St. Lawrence river.....	412

TRANSPORTATION ON THE GREAT LAKES.

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LAKE AND RIVER LANDINGS BETWEEN CLEVELAND AND DULUTH (DISTANCES FROM CLEVELAND).

	MILES.		MILES.		MILES.
Sandusky, Lake Erie	56	Mackinac, Lake Huron	406	Copper Harbor, Lake Superior	639
Put in Bay, Lake Erie	64	Owen sound, Lake Huron (Canada) ..	412	Muskegon, Lake Michigan	655
Toledo, Lake Erie	100	Collingwood, Lake Huron (Canada) ..	430	Grand Haven, Lake Michigan	657
Detroit, Detroit river (Lake St. Clair)	105	Midland, Lake Huron (Canada)	439	L'Anse, Lake Superior	666
Port Huron, St. Clair river (Lake Huron)	165	Sault Ste. Marie, Lake Superior	450	Houghton, Lake Superior	670
Sand Beach, Lake Huron	227	Traverse, Lake Michigan	509	Milwaukee, Lake Michigan	674
Goderich, Lake Huron (Canada)	228	Escanaba, Lake Michigan	547	St. Joseph, Lake Michigan	714
Oscoda, Lake Huron	278	Manistee, Lake Michigan	562	Port Arthur, Lake Superior (Canada)	720
Tawas, Lake Huron	284	Ludington, Lake Michigan	590	Ontonagon, Lake Superior	721
Saginaw river, Lake Huron	312	Manitowoc, Lake Michigan	605	Chicago, Lake Michigan	739
Alpena, Lake Huron	321	Marquette, Lake Superior	609	Bayfield, Lake Superior	785
Cheboygan, Lake Huron	399	Green Bay, Lake Michigan	614	Ashland, Lake Superior	798
		Sheboygan, Lake Michigan	629	Duluth, Lake Superior	847

LAKE AND RIVER LANDINGS BETWEEN DETROIT AND OGDENSBURG (DISTANCES FROM DETROIT).

Put in Bay, Lake Erie	50	Port Colborne, Lake Erie (Canada) ..	237	Fair Haven, Lake Ontario	397
Toledo, Lake Erie	57	Buffalo, Lake Erie	255	Oswego, Lake Ontario	407
Sandusky, Lake Erie	68	Port Dalhousie, Lake Ontario (Canada)	264	Kingston, Lake Ontario (Canada) ...	424
Cleveland, Lake Erie	105	Toronto, Lake Ontario (Canada)	294	Cape Vincent, Lake Ontario	425
Ashtabula, Lake Erie	147	Charlotte, Lake Ontario	354	Ogdensburg, St. Lawrence river	493
Erie, Lake Erie	185				

LAKE AND RIVER LANDINGS BETWEEN DETROIT AND DULUTH (DISTANCES FROM DETROIT).

Port Huron, St. Clair river (Lake Huron)	60	Midland, Lake Huron (Canada)	334	Grand Haven, Lake Michigan	552
Sand Beach, Lake Huron	122	Sault Ste. Marie, Lake Superior	345	L'Anse, Lake Superior	561
Goderich, Lake Huron (Canada)	123	Traverse, Lake Michigan	404	Houghton, Lake Superior	565
Oscoda, Lake Huron	173	Escanaba, Lake Michigan	442	Milwaukee, Lake Michigan	569
Tawas, Lake Huron	179	Manistee, Lake Michigan	457	St. Joseph, Lake Michigan	609
Saginaw river, Lake Huron	207	Ludington, Lake Michigan	485	Port Arthur, Lake Superior (Canada)	615
Alpena, Lake Huron	216	Manitowoc, Lake Michigan	500	Ontonagon, Lake Superior	616
Cheboygan, Lake Huron	294	Marquette, Lake Superior	504	Chicago, Lake Michigan	634
Mackinac, Lake Huron	303	Green Bay, Lake Michigan	509	Bayfield, Lake Superior	680
Owen sound, Lake Huron (Canada) ..	307	Sheboygan, Lake Michigan	524	Ashland, Lake Superior	693
Collingwood, Lake Huron (Canada) ..	325	Copper Harbor, Lake Superior	534	Duluth, Lake Superior	742
		Muskegon, Lake Michigan	550		

LAKE AND RIVER LANDINGS BETWEEN CHEBOYGAN AND OGDENSBURG (DISTANCES FROM CHEBOYGAN).

Alpena, Lake Huron	100	Midland, Lake Huron (Canada)	239	Port Dalhousie, Lake Ontario (Canada)	558
Oscoda, Lake Huron	126	Detroit, Detroit river (Lake St. Clair) ..	294	Toronto, Lake Ontario (Canada)	588
Tawas, Lake Huron	145	Put in Bay, Lake Erie	344	Charlotte, Lake Ontario	648
Sand Beach, Lake Huron	173	Toledo, Lake Erie	351	Fair Haven, Lake Ontario	691
Saginaw river, Lake Huron	190	Sandusky, Lake Erie	362	Oswego, Lake Ontario	701
Goderich, Lake Huron (Canada)	200	Cleveland, Lake Erie	399	Kingston, Lake Ontario (Canada)	718
Owen sound, Lake Huron (Canada) ..	212	Ashtabula, Lake Erie	441	Cape Vincent, Lake Ontario	719
Collingwood, Lake Huron (Canada) ..	230	Erie, Lake Erie	479	Ogdensburg, St. Lawrence river	784
Port Huron, St. Clair river (Lake Huron)	234	Port Colborne, Lake Erie (Canada) ..	539		
		Buffalo, Lake Erie	549		

LAKE AND RIVER LANDINGS BETWEEN CHEBOYGAN AND DULUTH (DISTANCES FROM CHEBOYGAN).

Mackinac, Lake Huron	17	Sheboygan, Lake Michigan	232	St. Joseph, Lake Michigan	317
Sault Ste. Marie, Lake Superior	93	Marquette, Lake Superior	252	Chicago, Lake Michigan	342
Traverse, Lake Michigan	112	Muskegon, Lake Michigan	258	Port Arthur, Lake Superior (Canada)	363
Escanaba, Lake Michigan	150	Grand Haven, Lake Michigan	260	Ontonagon, Lake Superior	364
Manistee, Lake Michigan	165	Milwaukee, Lake Michigan	277	Bayfield, Lake Superior	428
Ludington, Lake Michigan	193	Copper Harbor, Lake Superior	282	Ashland, Lake Superior	441
Manitowoc, Lake Michigan	208	L'Anse, Lake Superior	309	Duluth, Lake Superior	490
Green Bay, Lake Michigan	217	Houghton, Lake Superior	313		

LAKE AND RIVER LANDINGS BETWEEN GRAND HAVEN AND OGDENSBURG (DISTANCES FROM GRAND HAVEN).

	MILES.		MILES.		MILES.
Muskegon, Lake Michigan	20	Saginaw river, Lake Huron	448	Ashtabula, Lake Erie	699
Ludington, Lake Michigan	68	Goderich, Lake Huron (Canada)	458	Erie, Lake Erie	737
Manistee, Lake Michigan	93	Owen sound, Lake Huron (Canada)	469	Port Colborne, Lake Erie (Canada) ..	789
Green Bay, Lake Michigan	184	Collingwood, Lake Huron (Canada) ..	487	Buffalo, Lake Erie	807
Escanaba, Lake Michigan	193	Port Huron, St. Clair river (Lake Huron)	492	Port Dalhousie, Lake Ontario (Canada) ..	816
Traverse, Lake Michigan	210	Midland, Lake Huron (Canada)	496	Toronto, Lake Ontario (Canada)	846
Mackinac, Lake Huron	246	Detroit, Detroit river (Lake St. Clair) ..	552	Charlotte, Lake Ontario	906
Sheboygan, Lake Michigan	260	Put in Bay, Lake Erie	602	Fair Haven, Lake Ontario	949
Alpena, Lake Huron	358	Toledo, Lake Erie	609	Oswego, Lake Ontario	959
Oscoda, Lake Huron	384	Sandusky, Lake Erie	620	Kingston, Lake Ontario (Canada) ...	976
Tawas, Lake Huron	403	Cleveland, Lake Erie	657	Cape Vincent, Lake Ontario	977
Sand Beach, Lake Huron	431			Ogdensburg, St. Lawrence river	1,045

LAKE AND RIVER LANDINGS BETWEEN GRAND HAVEN AND DULUTH (DISTANCES FROM GRAND HAVEN).

St. Joseph, Lake Michigan	68	Sault Ste. Marie, Lake Superior	339	Port Arthur, Lake Superior (Canada) ..	609
Milwaukee, Lake Michigan	85	Marquette, Lake Superior	498	Ontonagon, Lake Superior	610
Sheboygan, Lake Michigan	88	Copper Harbor, Lake Superior	528	Bayfield, Lake Superior	674
Manitowoc, Lake Michigan	103	L'Anse, Lake Superior	555	Ashland, Lake Superior	687
Chicago, Lake Michigan	109	Houghton, Lake Superior	559	Duluth, Lake Superior	736

LAKE AND RIVER LANDINGS BETWEEN CHICAGO AND OGDENSBURG (DISTANCES FROM CHICAGO).

St. Joseph, Lake Michigan	61	Oscoda, Lake Huron	466	Cleveland, Lake Erie	739
Milwaukee, Lake Michigan	84	Tawas, Lake Huron	485	Ashtabula, Lake Erie	781
Grand Haven, Lake Michigan	109	Sand Beach, Lake Huron	513	Erie, Lake Erie	819
Muskegon, Lake Michigan	120	Saginaw river, Lake Huron	530	Port Colborne, Lake Erie (Canada) ..	871
Sheboygan, Lake Michigan	128	Goderich, Lake Huron (Canada)	540	Buffalo, Lake Erie	889
Manitowoc, Lake Michigan	156	Owen sound, Lake Huron (Canada) ..	552	Port Dalhousie, Lake Ontario (Canada) ..	898
Ludington, Lake Michigan	157	Collingwood, Lake Huron (Canada) ..	570	Toronto, Lake Ontario (Canada)	928
Manistee, Lake Michigan	182	Port Huron, St. Clair river (Lake Huron)	574	Charlotte, Lake Ontario	988
Green Bay, Lake Michigan	a255	Midland, Lake Huron (Canada)	579	Fair Haven, Lake Ontario	1,031
Escanaba, Lake Michigan	280	Detroit, Detroit river (Lake St. Clair) ..	634	Oswego, Lake Ontario	1,041
Traverse, Lake Michigan	298	Put in Bay, Lake Erie	684	Kingston, Lake Ontario (Canada) ...	1,058
Mackinac, Lake Huron	329	Toledo, Lake Erie	691	Cape Vincent, Lake Ontario	1,059
Cheboygan, Lake Huron	342	Sandusky, Lake Erie	702	Ogdensburg, St. Lawrence river	1,127
Alpena, Lake Huron	440				

LAKE AND RIVER LANDINGS BETWEEN CHICAGO AND DULUTH (DISTANCES FROM CHICAGO).

Sault Ste. Marie, Lake Superior	422	Houghton, Lake Superior	642	Bayfield, Lake Superior	b757
Marquette, Lake Superior	581	Port Arthur, Lake Superior (Canada) ..	692	Ashland, Lake Superior	b770
Copper Harbor, Lake Superior	611	Ontonagon, Lake Superior	693	Duluth, Lake Superior	819
L'Anse, Lake Superior	638				

LAKE AND RIVER LANDINGS BETWEEN MILWAUKEE AND OGDENSBURG (DISTANCES FROM MILWAUKEE).

Sheboygan, Lake Michigan	52	Tawas, Lake Huron	420	Cleveland, Lake Erie	674
Manitowoc, Lake Michigan	77	Sand Beach, Lake Huron	448	Ashtabula, Lake Erie	716
Grand Haven, Lake Michigan	85	Saginaw river, Lake Huron	465	Erie, Lake Erie	754
Muskegon, Lake Michigan	85	Goderich, Lake Huron (Canada)	475	Port Colborne, Lake Erie (Canada) ..	806
St. Joseph, Lake Michigan	97	Owen sound, Lake Huron (Canada) ..	489	Buffalo, Lake Erie	824
Ludington, Lake Michigan	98	Collingwood, Lake Huron (Canada) ..	507	Port Dalhousie, Lake Ontario (Canada) ..	833
Manistee, Lake Michigan	117	Port Huron, St. Clair river (Lake Huron)	509	Toronto, Lake Ontario (Canada)	863
Green Bay, Lake Michigan	a178	Midland, Lake Huron (Canada)	516	Charlotte, Lake Ontario	923
Escanaba, Lake Michigan	202	Detroit, Detroit river (Lake St. Clair) ..	569	Fair Haven, Lake Ontario	966
Traverse, Lake Michigan	222	Put in Bay, Lake Erie	619	Oswego, Lake Ontario	976
Mackinac, Lake Huron	266	Toledo, Lake Erie	626	Kingston, Lake Ontario (Canada)	993
Cheboygan, Lake Huron	277	Sandusky, Lake Erie	637	Cape Vincent, Lake Ontario	994
Alpena, Lake Huron	375			Ogdensburg, St. Lawrence river	1,062
Oscoda, Lake Huron	401				

LAKE AND RIVER LANDINGS BETWEEN MILWAUKEE AND DULUTH (DISTANCES FROM MILWAUKEE).

Chicago, Lake Michigan	84	L'Anse, Lake Superior	575	Bayfield, Lake Superior	694
Sault Ste. Marie, Lake Superior	359	Houghton, Lake Superior	579	Ashland, Lake Superior	707
Marquette, Lake Superior	518	Port Arthur, Lake Superior (Canada) ..	629	Duluth, Lake Superior	756
Copper Harbor, Lake Superior	548	Ontonagon, Lake Superior	630		

a Through Sturgeon Bay canal.

b Through Portage canal.

LAKE AND RIVER LANDINGS BETWEEN MARQUETTE AND OGDENSBURG (DISTANCES FROM MARQUETTE).

	MILES.		MILES.		MILES.
Sault Ste. Marie, Lake Superior.....	159	Collingwood, Lake Huron (Canada) .	427	Chicago, Lake Michigan.....	581
Cheboygan, Lake Huron.....	252	Midland, Lake Huron (Canada).....	436	Cleveland, Lake Erie.....	609
Mackinac, Lake Huron.....	259	Port Huron, St. Clair river (Lake		Ashtabula, Lake Erie.....	651
Alpena, Lake Huron.....	309	Huron).....	444	Erie, Lake Erie.....	689
Oscoda, Lake Huron.....	336	Manitowoc, Lake Michigan.....	448	Port Colborne, Lake Erie (Canada) ..	741
Traverse Lake Michigan.....	352	Green Bay, Lake Michigan.....	453	Buffalo, Lake Erie.....	759
Tawas, Lake Huron.....	359	Sheboygan, Lake Michigan.....	468	Port Dalhousie, Lake Ontario (Canada)	768
Sand Beach, Lake Huron.....	386	Grand Haven, Lake Michigan.....	498	Toronto, Lake Ontario (Canada).....	798
Escanaba, Lake Michigan.....	392	Detroit, Detroit river (Lake St. Clair)	504	Charlotte, Lake Ontario.....	858
Saginaw river, Lake Huron.....	395	Milwaukee, Lake Michigan.....	518	Fair Haven, Lake Ontario.....	901
Manistee, Lake Michigan.....	402	Put in Bay, Lake Erie.....	554	Oswego, Lake Ontario.....	911
Muskegon, Lake Michigan.....	405	St. Joseph, Lake Michigan.....	556	Kingston, Lake Ontario (Canada) ...	928
Owen sound, Lake Huron (Canada) ..	409	Toledo, Lake Erie.....	561	Cape Vincent, Lake Ontario.....	929
Goderich, Lake Huron (Canada).....	412	Sandusky, Lake Erie.....	572	Ogdensburg, St. Lawrence river.....	997
Ludington, Lake Michigan.....	427				

LAKE AND RIVER LANDINGS BETWEEN MARQUETTE AND DULUTH (DISTANCES FROM MARQUETTE).

Copper Harbor, Lake Superior.....	78	Ontonagon, Lake Superior.....	141	Ashland, Lake Superior.....	a219
L'Anse, Lake Superior.....	79	Port Arthur, Lake Superior (Canada)	172	Duluth, Lake Superior.....	a266
Houghton, Lake Superior.....	a82	Bayfield, Lake Superior.....	a207		

LAKE AND RIVER LANDINGS BETWEEN DULUTH AND OGDENSBURG (DISTANCES FROM DULUTH).

Bayfield, Lake Superior.....	80	Manistee, Lake Michigan.....	640	Toledo, Lake Erie.....	799
Ashland, Lake Superior.....	94	Muskegon, Lake Michigan.....	643	Sandusky, Lake Erie.....	810
Ontonagon, Lake Superior.....	138	Owen sound, Lake Huron (Canada) ..	647	Chicago, Lake Michigan.....	819
Houghton, Lake Superior.....	a178	Goderich, Lake Huron (Canada).....	650	Cleveland, Lake Erie.....	847
Copper Harbor, Lake Superior.....	206	Collingwood, Lake Huron (Canada) .	655	Ashtabula, Lake Erie.....	889
L'Anse, Lake Superior.....	a209	Ludington, Lake Michigan.....	665	Erie, Lake Erie.....	927
Marquette, Lake Superior.....	a266	Midland, Lake Huron (Canada).....	674	Port Colborne, Lake Erie (Canada) ..	979
Sault Ste. Marie, Lake Superior.....	397	Port Huron, St. Clair river (Lake		Buffalo, Lake Erie.....	997
Cheboygan, Lake Huron.....	490	Huron).....	682	Port Dalhousie, Lake Ontario (Canada)	1,006
Mackinac, Lake Huron.....	497	Manitowoc, Lake Michigan.....	686	Toronto, Lake Ontario (Canada).....	1,036
Alpena, Lake Huron.....	547	Green Bay, Lake Michigan.....	691	Charlotte, Lake Ontario.....	1,096
Oscoda, Lake Huron.....	574	Sheboygan, Lake Michigan.....	706	Fair Haven, Lake Ontario.....	1,139
Traverse, Lake Michigan.....	590	Grand Haven, Lake Michigan.....	736	Oswego, Lake Ontario.....	1,149
Tawas, Lake Huron.....	597	Detroit, Detroit river (Lake St. Clair)	742	Kingston, Lake Ontario (Canada).....	1,166
Sand Beach, Lake Huron.....	624	Milwaukee, Lake Michigan.....	756	Cape Vincent, Lake Ontario.....	1,167
Escanaba, Lake Michigan.....	630	Put in Bay, Lake Erie.....	792	Ogdensburg, St. Lawrence river.....	1,235
Saginaw river, Lake Huron.....	633	St. Joseph, Lake Michigan.....	794		

a Through Portage canal.

STATISTICAL TABLES.

EQUIPMENT, OCCUPATION, AND CONSTRUCTION.

TABLE 1.—EQUIPMENT OF FLEETS IN GENERAL—NUMBER, TONNAGE, AND VALUE OF ALL STEAMERS, SAILING VESSELS, AND UNRIGGED CRAFT FORMING THE LAKE FLEETS AND CREDITED TO THE RESPECTIVE PORTS OF HAIL, WITH TOTALS FOR EACH LAKE AND ST. LAWRENCE RIVER.

PORTS.	TOTAL OF ALL CRAFT.			STEAMERS.			SAILING VESSELS.			UNRIGGED CRAFT.		
	Num-ber.	Gross tonnage.	Valuation.	Num-ber.	Gross tonnage.	Valuation.	Num-ber.	Gross tonnage.	Valuation.	Num-ber.	Gross tonnage.	Valuation.
Total.....	2,737	920,294	\$48,580,174	1,467	595,813	\$40,868,824	962	185,081	\$4,238,850	308	139,400	\$3,472,500
Lake Superior	167	39,653	2,763,500	126	29,257	2,344,300	31	2,784	74,200	10	7,612	345,000
Ashland, Wisconsin	1	73	5,000	1	73	5,000						
Baraga, Michigan	3	1,319	44,000	1	35	6,000				2	1,284	38,000
Bayfield, Wisconsin	1	291	6,000				1	291	6,000			
Duluth, Minnesota	39	4,386	338,800	35	1,614	161,800	1	88	1,500	3	2,684	175,000
Marquette, Michigan	111	20,759	1,532,200	81	18,028	1,461,500	29	2,405	66,700	1	326	4,000
Pequaming, Michigan	4	2,082	124,000	2	1,069	79,000				2	1,013	45,000
Republic, Michigan	4	5,314	239,000	2	3,009	156,000				2	2,305	83,000
St. Marys Falls, Michigan	2	477	25,000	2	477	25,000						
Superior, Wisconsin	2	4,952	450,000	2	4,952	450,000						
Lakes Huron and St. Clair	726	262,833	13,107,650	340	152,463	10,521,600	213	34,119	812,050	173	76,251	1,774,000
Algonac, Michigan	6	2,345	46,000							6	2,345	46,000
Alpena, Michigan	9	4,984	166,400	1	1,117	100,000				8	3,867	68,400
Bay city, Michigan	56	31,176	1,146,100	11	7,286	447,500	7	3,625	127,400	38	20,265	571,200
Cassville, Michigan	1	298	4,000				1	298	4,000			
Cheboygan, Michigan	2	83	7,500	2	83	7,500						
Detroit, Michigan	275	129,768	7,547,800	144	88,906	6,594,000	87	19,475	416,500	44	21,387	587,300
East China, Michigan	2	1,449	67,000							2	1,449	67,000
East Saginaw, Michigan	30	13,261	419,600	6	3,999	251,500	2	776	14,000	22	8,486	154,100
Marine, Michigan	23	9,875	230,800	1	1,119	50,000	5	2,038	40,500	17	6,718	140,300
Mount Clemens, Michigan	2	504	1,500							2	504	1,500
New Baltimore, Michigan	2	147	11,000	2	147	11,000						
Oscoda, Michigan	3	1,289	17,000				1	591	12,000	2	698	5,000
Port Huron, Michigan	293	61,482	3,253,950	165	48,042	2,953,100	106	6,381	184,150	22	7,059	116,700
Saginaw, Michigan	10	2,829	88,500	4	1,004	64,000	1	252	500	5	1,573	24,000
St. Clair, Michigan	12	3,343	100,500	1	760	43,000	3	683	13,000	5	1,900	44,500
Lake Michigan	1,003	196,216	9,114,400	453	101,800	7,227,600	500	76,577	1,485,300	50	17,839	401,500
Benton Harbor, Michigan	3	699	39,500	2	655	38,500	1	44	1,000			
Charlevoix, Michigan	6	488	12,800	2	83	7,000	4	405	5,800			
Chicago, Illinois	339	71,260	3,088,350	156	28,810	2,257,800	163	35,940	712,550	20	6,510	118,000
Escanaba, Michigan	5	1,615	52,000	1	448	25,000	4	1,167	27,000			
Fort Howard, Wisconsin	2	222	5,500				2	222	5,500			
Frankfort, Michigan	1	7	1,000	1	7	1,000						
Grand Haven, Michigan	225	22,308	1,608,650	147	16,861	1,447,300	77	4,829	123,350	1	618	38,000
Green Bay, Wisconsin	10	3,300	115,000	4	995	59,000	3	955	27,500	3	1,350	28,500
Holland, Michigan	2	220	3,000				2	220	3,000			
Kenosha, Wisconsin	19	7,378	358,900	6	4,037	304,000	12	3,145	52,900	1	190	2,000
Kewaunee, Wisconsin	1	160	3,000				1	160	3,000			
Ludington, Michigan	4	752	12,000				4	752	12,000			
Manistee, Michigan	11	2,732	54,000	1	530	25,000	9	1,890	25,000	1	312	4,000
Manitowoc, Wisconsin	15	1,775	34,600				15	1,775	34,600			
Menominee, Michigan	1	277	2,500							1	277	2,500
Milwaukee, Wisconsin	259	61,694	3,205,000	123	46,405	2,908,500	130	13,043	247,500	6	2,246	49,000
Montague, Michigan	2	217	4,000				2	217	4,000			
Muskegon, Michigan	17	3,088	63,100	2	504	24,000	15	2,584	39,100			
Northport, Michigan	1	63	7,000	1	63	7,000						
Onekama, Michigan	1	146	3,500							1	146	3,500
Pentwater, Michigan	2	260	4,500				2	260	4,500			
Peshigo, Wisconsin	3	1,704	52,500							3	1,704	52,500
Petoskey, Michigan	1	123	12,000	1	123	12,000						
Racine, Wisconsin	26	6,932	145,400				15	2,883	47,400	11	4,049	98,000
St. James, Michigan	1	81	1,500				1	81	1,500			
St. Joseph, Michigan	2	164	1,000				2	164	1,000			
Saugatuck, Michigan	3	647	33,500	3	647	33,500						
Sheboygan, Wisconsin	25	4,115	79,900				24	3,914	76,900	1	201	3,000
South Haven, Michigan	4	374	5,100				4	374	5,100			
Spring Lake, Michigan	2	345	8,000				2	345	8,000			
Sturgeon Bay, Wisconsin	2	550	5,000				1	320	2,500	1	230	2,500
Suttons Bay, Michigan	1	232	3,000				1	232	3,000			
Traverse, Michigan	1	336	20,000	1	336	20,000						
Troy, Wisconsin	1	301	7,000				1	301	7,000			
Waukegan, Illinois	2	1,296	58,000	2	1,296	58,000						
Waukesha, Wisconsin	1	48	600				1	48	600			
Whitehall, Michigan	2	307	4,000				2	307	4,000			

EQUIPMENT, OCCUPATION, AND CONSTRUCTION—Continued.

TABLE 1.—EQUIPMENT OF FLEETS IN GENERAL, ETC.—Continued.

PORTS.	TOTAL OF ALL CRAFT.			STEAMERS.			SAILING VESSELS.			UNRIGGED CRAFT.		
	Num- ber.	Gross tonnage.	Valuation.	Num- ber.	Gross tonnage.	Valuation.	Num- ber.	Gross tonnage.	Valuation.	Num- ber.	Gross tonnage.	Valua- tion.
Lake Erie	667	392,903	\$22,163,824	449	296,034	\$19,583,124	151	61,097	\$1,647,700	67	35,772	\$933,000
Ashtabula, Ohio.....	4	175	27,000	4	175	27,000	1	264	5,000			
Avon, Ohio.....	1	264	5,000				17	10,376	290,500	20	8,909	184,500
Buffalo, New York.....	204	128,860	8,235,124	167	109,575	7,760,124	67	30,956	871,300	19	12,302	352,000
Cleveland, Ohio.....	219	163,227	8,802,800	133	119,969	7,579,500	1	24	1,500			
Dunkirk, New York.....	3	522	29,000	2	498	27,500						
Erie, Pennsylvania.....	37	29,454	1,759,900	33	28,142	1,723,000	3	487	11,900	1	825	25,000
Fairport, Ohio.....	5	316	17,000	3	81	13,500	2	235	3,500			
Fremont, Ohio.....	2	20	1,800	2	20	1,800						
Gratwick, Ohio.....	1	538	28,000									
Huron, Ohio.....	12	5,091	274,700	8	3,532	226,000	3	649	13,700	1	598	28,000
										1	910	35,000
Lorain, Ohio.....	18	8,621	321,500	3	1,802	157,500	13	5,442	119,500	2	1,377	44,500
Milan, Ohio.....	6	6,824	323,500	2	2,988	200,000	3	1,989	58,500	1	1,847	65,000
Norwalk, Ohio.....	2	1,344	51,000	1	723	35,000				1	621	16,000
Port Clinton, Ohio.....	1	56	5,000	1	56	5,000						
Put in Bay, Ohio.....	1	168	6,000	1	168	6,000						
Suspension Bridge, New York.....	3	346	19,000	2	305	18,000	1	41	1,000			
Sandusky, Ohio.....	64	18,303	865,200	42	13,331	764,200	17	3,567	85,000	5	1,405	16,000
Toledo, Ohio.....	59	18,027	907,300	32	9,968	726,000	20	5,107	129,300	7	2,952	52,000
Tonawanda, New York.....	19	5,696	287,000	12	3,100	223,000				7	2,596	64,000
Vermilion, New York.....	6	5,051	198,000	1	1,601	90,000	3	1,960	57,000	2	1,490	51,000
Lake Ontario.....	131	15,859	676,300	66	5,407	460,700	63	10,018	210,600	2	434	5,000
Cape Vincent, New York.....	52	2,220	126,500	24	886	94,000	28	1,334	32,500			
Charlotte, New York.....							1	309	6,000			
Chaumont, New York.....	1	309	6,000				1	175	3,000			
Hamlin, New York.....	1	175	3,000				1	246	4,000			
Henderson, New York.....	1	246	4,000									
Medina, New York.....	1	9	2,000	1	9	2,000						
Oswego, New York.....	42	8,842	402,000	22	3,433	289,800	20	5,409	112,200			
Pultneyville, New York.....	1	80	1,500				1	80	1,500			
Rochester, New York.....	21	2,276	90,900	16	999	70,000	4	951	16,400	1	326	4,500
Sacketts Harbor, New York.....	5	521	7,700	1	12	1,200	3	401	6,000	1	108	500
Sodus Point, New York.....	2	296	8,000	1	18	2,000	1	278	6,000			
Troy, New York.....	1	555	18,000				1	555	18,000			
Wilson, New York.....	2	280	5,000				2	280	5,000			
Youngstown, New York.....	1	50	1,700	1	50	1,700						
St. Lawrence river.....	43	12,830	754,500	33	10,852	731,500	4	486	9,000	6	1,492	14,000
Alexandria Bay, New York.....	3	37	5,000	3	37	5,000						
Clayton, New York.....	7	1,328	69,500	5	904	61,000	2	424	8,500			
Ogdensburg, New York.....	33	11,465	680,000	25	9,911	665,500	2	62	500	6	1,492	14,000

TABLE 2.—EQUIPMENT OF FLEETS BY CLASSES—NUMBER, TONNAGE, AND VALUE OF ALL STEAMERS, SAILING INDICATIVE OF

1	PORTS.	TOTAL EQUIPMENT.			STEAMERS.								
		Num- ber.	Gross tonnage.	Valuation.	Side-wheel passenger.			Propellers carrying both pas- sengers and freight.			Propellers carrying freight only.		
					Num- ber.	Gross tonnage.	Valuation.	Num- ber.	Gross tonnage.	Valuation.	Num- ber.	Gross tonnage.	Valuation.
1	Total.....	2,737	920,294	\$48,580,174	62	27,259	\$2,600,500	303	143,907	\$10,971,124	433	388,978	\$23,438,700
2	Lake Superior.....	167	39,653	2,763,500				29	12,313	1,091,000	15	13,517	898,500
3	Ashland, Wisconsin.....	1	73	5,000				1	73	5,000			
4	Baraga, Michigan.....	3	1,319	44,000									
5	Bayfield, Wisconsin.....	1	291	6,000									
6	Duluth, Minnesota.....	39	4,386	338,300				7	714	47,500	1	42	4,000
7	Marquette, Michigan.....	111	20,759	1,532,200				19	10,521	954,500	9	5,209	279,500
8	Pequaming, Michigan.....	4	2,082	124,000				1	764	70,000	1	305	9,000
9	Republic, Michigan.....	4	5,314	239,000							2	3,009	156,000
10	St. Marys Falls, Michigan.....	2	477	25,000				1	241	14,000			
11	Superior, Wisconsin.....	2	4,952	450,000							2	4,952	450,000
12	Lakes Huron and St. Clair.....	726	262,833	13,107,650	23	17,729	1,864,500	43	17,972	1,296,500	138	104,477	6,221,500
13	Algonac, Michigan.....	6	2,345	46,000				1	1,117	100,000			
14	Alpena, Michigan.....	9	4,984	166,400				3	2,035	127,500	5	4,374	289,000
15	Bay city, Michigan.....	56	31,176	1,146,100	2	865	30,000						
16	Caseville, Michigan.....	1	298	4,000				1	36	1,500			
17	Cheboygan, Michigan.....	2	83	7,500	1	47	6,000						
18	Detroit, Michigan.....	275	129,768	7,547,800	18	16,425	1,817,000	17	8,565	661,500	56	56,994	3,422,500
19	East China, Michigan.....	2	1,449	67,000									
20	East Saginaw, Michigan.....	30	13,261	419,600	2	392	11,500	4	3,607	240,000			
21	Marine, Michigan.....	23	9,875	230,800							1	1,119	50,000
22	Mount Clemens, Michigan.....	2	504	1,500									
23	New Baltimore, Michigan.....	2	147	11,000				2	147	11,000			
24	Oscoda, Michigan.....	3	1,289	17,000									
25	Port Huron, Michigan.....	293	61,482	3,253,950				11	1,887	120,000	73	40,840	2,392,000
26	Saginaw, Michigan.....	10	2,829	88,500				1	137	7,000	2	831	53,000
27	St. Clair, Michigan.....	12	3,343	100,500				3	441	28,000	1	319	15,000
28	Lake Michigan.....	1,003	196,216	9,114,400	22	5,879	501,500	96	28,256	2,048,500	105	57,027	3,511,000
29	Benton Harbor, Michigan.....	3	699	39,500				2	655	38,500			
30	Charlevoix, Michigan.....	6	488	12,800				2	83	7,000			
31	Chicago, Illinois.....	339	71,260	3,088,350	5	523	39,000	34	13,181	1,075,500	28	10,960	673,000
32	Escanaba, Michigan.....	5	1,615	52,000				1	448	25,000			
33	Fort Howard, Wisconsin.....	2	222	5,500									
34	Frankfort, Michigan.....	1	7	1,000									
35	Grand Haven, Michigan.....	225	22,308	1,608,650	6	1,659	204,000	31	5,750	450,000	23	6,305	464,500
36	Green Bay, Wisconsin.....	10	3,300	115,000	1	95	4,000	3	900	55,000			
37	Holland, Michigan.....	2	220	3,000									
38	Kenosha, Wisconsin.....	19	7,378	358,900	4	2,459	194,000	2	1,578	110,000			
39	Kewaunee, Wisconsin.....	1	160	3,000									
40	Ludington, Michigan.....	4	752	12,000									
41	Manistee, Michigan.....	11	2,732	54,000	1	530	25,000						
42	Manitowoc, Wisconsin.....	15	1,775	34,600									
43	Menominee, Michigan.....	1	277	2,500									
44	Milwaukee, Wisconsin.....	259	61,694	3,205,000	5	613	35,500	12	3,282	166,000	53	39,172	2,340,500
45	Montague, Michigan.....	2	217	4,000									
46	Muskegon, Michigan.....	17	3,088	63,100				2	504	24,000			
47	Northport, Michigan.....	1	63	7,000				1	63	7,000			
48	Ouekama, Michigan.....	1	146	3,500									
49	Pentwater, Michigan.....	2	260	4,500									
50	Peshtigo, Wisconsin.....	3	1,704	52,500									
51	Petoskey, Michigan.....	1	123	12,000				1	123	12,000			
52	Racine, Wisconsin.....	20	6,932	145,400									
53	St. James, Michigan.....	1	81	1,500									
54	St. Joseph, Michigan.....	2	164	1,000									
55	Saugatuck, Michigan.....	3	647	33,500				3	647	33,500			
56	Sheboygan, Wisconsin.....	25	4,115	79,900									
57	South Haven, Michigan.....	4	374	5,100									
58	Spring Lake, Michigan.....	2	345	8,000									
59	Sturgeon Bay, Wisconsin.....	2	550	5,000									
60	Suttons Bay, Michigan.....	1	232	3,000									
61	Traverse, Michigan.....	1	336	20,000				1	336	20,000			
62	Troy, Wisconsin.....	1	301	7,000									
63	Waukegan, Illinois.....	2	1,296	58,000				1	706	25,000	1	590	33,000
64	Waukesha, Wisconsin.....	1	48	600									
65	Whitehall, Michigan.....	2	307	4,000									
66	Lake Erie.....	667	392,903	22,163,824	10	2,221	144,000	91	83,818	6,342,724	166	202,224	12,065,700
67	Ashtabula, Ohio.....	4	175	27,000									
68	Avon, Ohio.....	1	264	5,000									
69	Buffalo, New York.....	204	128,860	8,235,124				43	34,542	2,767,424	50	72,066	4,546,000
70	Cleveland, Ohio.....	219	163,227	8,802,800	1	36	4,000	19	33,986	2,540,000	66	83,979	4,795,500
71	Dunkirk, New York.....	3	522	29,000							1	460	25,000

TRANSPORTATION ON THE GREAT LAKES.

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AND CONSTRUCTION—Continued.

VESSELS, AND UNRIGGED CRAFT REPORTED ON IN THE PRECEDING TABLE, BUT DIVIDED INTO CLASSES
OCCUPATION AND RIG.

STEAMERS—continued.						SAIL AND UNRIGGED VESSELS.									
Tugs.			All other classes.			Schooners.			Lake barges.			All other classes.			
Num- ber.	Gross tonnage.	Valuation.	Num- ber.	Gross tonnage.	Valuation.	Num- ber.	Gross tonnage.	Valuation.	Num- ber.	Gross tonnage.	Valuation.	Num- ber.	Gross tonnage.	Valuation.	
489	24,451	\$2,556,300	180	11,218	\$1,302,200	917	184,029	\$4,217,200	301	138,404	\$3,463,500	52	2,048	\$30,650	1
67	2,849	306,300	15	578	48,500	31	2,784	74,200	10	7,612	345,000				2
1	35	6,000							2	1,284	38,000				3
22	722	97,800	5	136	12,500	1	291	6,000	3	2,684	175,000				4
43	1,856	191,500	10	442	36,000	29	88	1,500	1	326	4,000				5
							2,405	66,700							6
1	236	11,000							2	1,013	45,000				7
									2	2,305	83,000				8
															9
															10
102	8,383	639,600	34	3,902	499,500	203	33,639	805,500	171	75,849	1,772,500	12	882	8,050	11
															12
1	12	1,000				7	3,625	127,400	6	2,345	46,000				13
						1	298	4,000	8	3,867	66,400				14
									38	20,265	571,200				15
34	3,671	272,000	19	3,251	421,000	83	19,074	411,900	44	21,387	537,300	4	401	4,600	16
						2	776	14,000	2	1,449	67,000				17
						5	2,038	40,500	22	8,486	154,100				18
									17	6,718	140,300				19
									1	364	500	1	140	1,000	20
66	4,664	362,600	15	651	78,500	1	591	12,000	2	698	5,000				21
1	36	4,000				100	6,302	182,200	21	6,797	116,200	7	341	2,450	22
						1	252	500	5	1,573	24,000				23
						3	683	13,000	5	1,900	44,500				24
									5						25
184	7,949	836,100	46	2,689	330,500	488	76,442	1,481,500	46	17,353	394,500	16	621	10,800	26
						1	44	1,000							27
						4	405	5,800							28
74	2,469	298,800	15	1,677	171,500	155	35,859	710,000	18	6,255	115,000	10	336	5,550	29
						4	1,167	27,000							30
						2	222	5,500							31
1	7	1,000													32
64	2,572	261,800	23	575	67,000	74	4,784	122,400	1	618	38,000	3	45	950	33
						3	955	27,500	3	1,350	28,500				34
						2	220	3,000							35
						12	3,145	52,900	1	196	2,000				36
															37
						1	160	3,000							38
						4	752	12,000							39
						9	1,890	25,000	1	312	4,000				40
						15	1,775	34,600							41
									1	277	2,500				42
45	2,901	274,500	8	437	92,000	129	13,034	247,200	1	246	49,000	1	11	300	43
						2	217	4,000							44
						15	2,584	39,100							45
															46
															47
						2	260	4,500							48
									3	1,704	52,500				49
															50
						15	2,883	47,400	10	3,964	97,500	1	85	500	51
						1	81	1,500							52
						2	164	1,000							53
															54
						24	3,914	76,900	1	201	3,000				55
						4	374	5,100							56
															57
						2	345	8,000							58
						1	320	2,500	1	230	2,500				59
						1	232	3,000							60
															61
						1	301	7,000							62
						1	48	600							63
						2	307	4,000							64
															65
123	4,806	702,000	59	2,965	328,700	148	61,014	1,645,200	67	35,772	933,000	3	83	2,500	66
4	175	27,000													67
54	2,057	317,500	20	910	129,200	1	264	5,000	20	8,909	184,500				68
29	1,002	134,000	18	966	106,000	17	10,376	290,500	19	12,302	352,000	3	83	2,500	69
						64	30,873	868,800							70
			1	38	2,500	1	24	1,500							71

EQUIPMENT, OCCUPATION, AND

TABLE 2.—EQUIPMENT OF FLEETS

	PORTS.	TOTAL EQUIPMENT.			STEAMERS.								
					Side-wheel passengers.			Propellers carrying both passengers and freight.			Propellers carrying freight only.		
		Num-ber.	Gross tonnage.	Valuation.	Num-ber.	Gross tonnage.	Valuation.	Num-ber.	Gross tonnage.	Valuation.	Num-ber.	Gross tonnage.	Valuation.
	Lake Erie—Continued.												
1	Erie, Pennsylvania.....	37	29,454	\$1,759,900				9	5,004	\$330,500	14	22,633	\$1,347,000
2	Fairport, Ohio.....	5	316	17,000									
3	Fremont, Ohio.....	2	20	1,800				1	11	800			
4	Gratwick, Ohio.....	1	538	28,000									
5	Huron, Ohio.....	12	5,091	274,700							2	3,433	204,000
6	Lorain, Ohio.....	18	8,621	321,500							1	1,759	150,000
7	Milan, Ohio.....	8	6,824	323,500				1	2,279	140,000	1	709	60,000
8	Norwalk, Ohio.....	2	1,344	51,000							1	723	35,000
9	Port Clinton, Ohio.....	1	58	5,000									
10	Put in Bay, Ohio.....	1	168	6,000	1	168	\$6,000						
11	Suspension Bridge, New York.	3	346	19,000							1	278	15,000
12	Sandusky, Ohio.....	64	18,303	865,200	5	1,273	99,000	9	495	45,500	19	11,274	583,200
13	Toledo, Ohio.....	59	18,027	907,300	2	744	35,000	4	4,528	318,500	9	3,311	215,000
14	Tonawanda, New York.....	19	5,696	287,000				5	2,973	200,000			
15	Vermilion, New York.....	6	5,051	198,000							1	1,601	90,000
16	Lake Ontario.....	131	15,859	676,300	11	553	32,500	32	1,155	155,900	3	2,906	174,000
17	Cape Vincent, New York.....	52	2,220	126,500	2	85	14,000	15	586	56,500	1	72	4,000
18	Charlotte, New York.....												
19	Chaumont, New York.....	1	309	6,000									
20	Hamlin, New York.....	1	175	3,000									
21	Henderson, New York.....	1	246	4,000									
22	Medina, New York.....	1	9	2,000									
23	Oswego, New York.....	42	8,842	402,000				7	225	68,500	2	2,834	170,000
24	Pultneyville, New York.....	1	80	1,500									
25	Rochester, New York.....	21	2,276	90,900	2	468	18,500	7	264	26,000			
26	Sacketts Harbor, New York..	5	521	7,700				1	12	1,200			
27	Sodus Point, New York.....	3	298	8,000				1	18	2,000			
28	Troy, New York.....	1	555	18,000									
29	Wilson, New York.....	2	280	5,000									
30	Youngstown, New York.....	1	50	1,700				1	50	1,700			
31	St. Lawrence river.....	43	12,830	754,500	3	877	58,000	12	393	36,500	6	8,827	568,000
32	Alexandria Bay, New York...	3	37	5,000				3	37	5,000			
33	Clayton, New York.....	7	1,328	69,500	3	877	58,000	2	27	3,000			
34	Ogdensburg, New York.....	33	11,465	680,000				7	329	28,500	6	8,827	568,000

CONSTRUCTION—Continued.

BY CLASSES, ETC.—Continued.

STEAMERS—continued.						SAIL AND UNRIGGED VESSELS.								
Tugs.			All other classes.			Schooners.			Lake barges.			All other classes.		
Num- ber.	Gross tonnage.	Valuation.	Num- ber.	Gross tonnage.	Valuation.	Num- ber.	Gross tonnage.	Valuation.	Num- ber.	Gross tonnage.	Valuation.	Num- ber.	Gross tonnage.	Valuation.
1	103	\$16,000	6	402	\$29,500	3	487	\$11,900	1	825	\$25,000			
2	66	10,500	1	15	3,000	2	235	3,500						
			1	9	1,000									
			6	99	22,000	8	649	13,700	1	538	28,000			
									1	910	35,000			
2	43	7,500				13	5,442	119,500	2	1,377	44,500			
						3	1,989	58,500	1	1,847	65,000			
1	56	5,000							1	621	16,000			
1	29	3,000				1	41	1,000						
5	232	26,000	3	57	10,500	17	3,567	85,000	5	1,405	16,000			
14	916	132,500	3	469	25,000	20	5,107	129,300	7	2,952	52,000			
7	127	23,000							7	2,596	64,000			
						3	1,960	57,000	1	1,490	51,000			
8	185	36,800	19	608	61,500	45	9,726	202,300	1	326	4,500	19	400	\$8,800
			6	143	19,500	12	1,058	24,600				16	276	7,900
						1	309	6,000						
						1	175	3,000						
						1	246	4,000						
8	185	36,800	1	11	2,000									
			5	189	14,500	18	5,393	111,800				2	16	400
						1	80	1,500						
			7	267	25,500	4	951	16,400	1	326	4,500			
						3	401	6,000				1	108	500
						1	278	6,000						
						1	555	18,000						
						2	280	5,000						
5	279	35,500	7	476	33,500	2	424	8,500	6	1,492	14,000	2	62	500
						2	424	8,500						
5	279	35,500	7	476	33,500				6	1,492	14,000	2	62	500

EQUIPMENT, OCCUPATION, AND CONSTRUCTION—Continued.

TABLE 3.—PERCENTAGES OF TONNAGE AND VALUATION—NUMBER, GROSS AND NET TONNAGE, AND ESTIMATED CARRYING CAPACITY, COMMERCIAL VALUATION AND VALUE PER GROSS TON OF ALL STEAMERS, SAILING VESSELS, AND UNRIGGED CRAFT; ARRANGED BY PERCENTAGES OF TONNAGE AND VALUATION APPLIED TO THE LAKES AND ST. LAWRENCE RIVER BY CLASS ENTRIES.

ALL LAKES AND ST. LAWRENCE RIVER.

CLASSES OF VESSELS.	Number.	TONNAGE.				VALUATION.				Per ton, gross.
		Gross.	Percentage of—		Net.	Estimated carrying capacity.	Commercial.	Percentage of—		
			Total tonnage on Great Lakes.	Total tonnage of class named on all the lakes.				Total valuation on Great Lakes.	Total valuation of class named on all the lakes.	
All classes.....	2, 737	920, 294	100. 00	100. 00	776, 817	1, 248, 784	\$48, 580, 174	100. 00	100. 00	\$58. 76
Steamers:										
Side-wheel passenger.....	62	27, 259	2. 96	100. 00	19, 465	27, 633	2, 600, 500	5. 35	100. 00	95. 55
Propellers carrying both passengers and freight.	303	143, 907	15. 64	100. 00	112, 585	157, 035	10, 971, 124	22. 58	100. 00	76. 76
Propellers carrying freight only.....	433	388, 978	42. 26	100. 00	314, 875	453, 574	23, 438, 700	48. 25	100. 00	60. 60
Tugs.....	489	24, 451	2. 66	100. 00	14, 292	14, 352	2, 556, 300	5. 26	100. 00	105. 105
Ferry.....	40	4, 702	0. 51	100. 00	2, 933	3, 849	498, 000	1. 03	100. 00	106. 106
Pleasure yachts.....	54	2, 121	0. 23	100. 00	1, 320	1, 128	312, 700	0. 64	100. 00	147. 147
Pile drivers.....	15	247	0. 03	100. 00	150	77	53, 500	0. 11	100. 00	217. 217
Sand dredges.....	4	398	0. 04	100. 00	295	431	14, 000	0. 03	100. 00	35. 35
Sand boats.....	1	81	0. 01	100. 00	71	102	5, 000	0. 01	100. 00	62. 62
Fire boats.....	7	631	0. 07	100. 00	319	354	195, 000	0. 40	100. 00	309. 309
Steam lighters.....	4	392	0. 04	100. 00	368	839	14, 000	0. 03	100. 00	86. 86
Unclassified steam vessels.....	55	2, 646	0. 29	100. 00	1, 913	1, 895	210, 000	0. 43	100. 00	79. 79
Sail and unrigged vessels:										
Schooners.....	917	184, 029	20. 00	100. 00	174, 869	334, 360	4, 217, 200	8. 68	100. 00	23. 23
Lake barges.....	301	138, 404	15. 04	100. 00	131, 407	249, 847	3, 463, 500	7. 13	100. 00	25. 25
Scows.....	7	996	0. 11	100. 00	952	1, 833	9, 000	0. 02	100. 00	9. 9
Sloops.....	44	1, 035	0. 11	100. 00	986	1, 943	21, 350	0. 05	100. 00	21. 21
Yawls.....	1	17		100. 00	17	32	300		100. 00	18. 18

LAKE SUPERIOR.

[illegible]

LAKES HURON AND ST. CLAIR.

[illegible]

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TABLE 3.—PERCENTAGES OF TONNAGE AND VALUATION, ETC.—Continued.

LAKE MICHIGAN.

[illegible]

LAKE ERIE.

All classes.....	667	392, 903	100. 00	42. 69	332, 991	518, 134	22, 163, 824	100. 00	45. 63	56
Steamers:										
Side-wheel passenger.....	10	2, 221	0. 57	8. 15	1, 505	2, 482	144, 000	0. 65	5. 54	65
Propellers carrying both passengers and freight.....	91	83, 818	21. 33	58. 24	67, 056	94, 470	6, 342, 724	28. 62	57. 81	76
Propellers carrying freight only.....	166	202, 224	51. 47	51. 99	167, 518	241, 707	12, 065, 700	54. 44	51. 48	60
Tugs.....	123	4, 806	1. 22	19. 66	2, 734	2, 180	702, 000	3. 17	27. 46	146
Ferry.....	5	284	0. 07	6. 04	189	229	19, 000	0. 09	3. 82	07
Pleasure yachts.....	20	1, 056	0. 27	49. 79	653	730	136, 700	0. 62	43. 72	129
Pile drivers.....	14	242	0. 06	97. 98	145	74	49, 500	0. 22	92. 52	205
Sand dredges.....	1	398	0. 10	100. 00	295	431	14, 000	0. 06	100. 00	35
Sand boats.....	1	81	0. 02	100. 00	71	102	5, 000	0. 02	100. 00	62
Fire boats.....	2	199	0. 05	31. 54	100	114	60, 000	0. 27	30. 77	302
Steam lighters.....	4	592	0. 10	100. 00	368	339	14, 000	0. 06	100. 00	36
Unclassified steam vessels.....	9	313	0. 08	11. 83	229	176	30, 500	0. 14	14. 52	97
Sail and unrigged vessels:										
Schooners.....	148	61, 014	15. 53	33. 15	58, 099	110, 486	1, 645, 200	7. 42	39. 01	27
Lake barges.....	67	35, 772	9. 11	25. 85	33, 950	64, 464	933, 000	4. 21	26. 94	26
Sloops.....	2	66	0. 02	6. 38	62	118	2, 200	0. 01	10. 30	33
Yawls.....	1	17		100. 00	17	32	300		100. 00	18

LAKE ONTARIO.

[illegible]

STATISTICS OF TRANSPORTATION.

EQUIPMENT, OCCUPATION, AND CONSTRUCTION—Continued.

TABLE 3.—PERCENTAGES OF TONNAGE AND VALUATION—Continued.

ST. LAWRENCE RIVER.

[illegible]

TRANSPORTATION ON THE GREAT LAKES.

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EQUIPMENT, OCCUPATION, AND CONSTRUCTION—Continued.

TABLE 4.—OCCUPATION BY CLASS GROUPS—NUMBER, GROSS AND NET TONNAGE, AND ESTIMATED CARRYING CAPACITY COMMERCIAL VALUE, AND VALUE PER GROSS TON OF ALL STEAMERS, SAILING VESSELS, AND UNRIGGED CRAFT; GROUPED BY CLASSES, AND ENTERED BY CLASS TOTALS FOR EACH OF THE LAKES AND ST. LAWRENCE RIVER.

LAKES AND RIVER.	Number.	Gross tonnage.	Net tonnage.	Estimated carrying capacity (tons).	Commercial valuation.	Valuation per gross ton.
Summary of entire lake fleet.....	2,737	920,294	776,817	1,248,784	\$48,580,174	\$53

SIDE-WHEEL PASSENGER STEAMERS.

Total	62	27,259	19,465	27,633	2,600,500	95
Lake Superior	23	17,729	12,570	17,828	1,864,500	105
Lakes Huron and St. Clair	22	5,879	4,501	6,257	501,500	85
Lake Michigan	10	2,221	1,505	2,482	144,000	65
Lake Erie	4	553	397	442	32,500	59
Lake Ontario	3	877	492	624	58,000	66
St. Lawrence river						

PROPELLERS CARRYING BOTH PASSENGERS AND FREIGHT.

Total	303	143,907	112,585	157,035	10,971,124	76
Lake Superior	29	12,313	9,176	11,390	1,091,000	89
Lakes Huron and St. Clair	43	17,972	13,391	19,656	1,296,500	72
Lake Michigan	96	28,256	22,044	30,909	2,048,500	72
Lake Erie	91	83,818	67,056	94,470	6,342,724	175
Lake Ontario	32	1,155	685	482	155,900	93
St. Lawrence river	12	393	233	128	36,500	

PROPELLERS CARRYING FREIGHT ONLY.

Total	433	388,978	314,875	453,574	23,438,700	60
Lake Superior	15	13,517	10,666	14,666	898,500	66
Lakes Huron and St. Clair	138	104,477	82,692	120,202	6,221,500	60
Lake Michigan	105	57,027	44,215	65,613	3,511,000	62
Lake Erie	166	202,224	167,518	241,707	12,065,700	60
Lake Ontario	3	2,906	2,209	3,199	174,000	60
St. Lawrence river	6	8,827	7,575	8,187	568,000	64

TUGS.

Total	489	24,451	14,292	14,352	2,556,300	105
Lake Superior	67	2,849	1,607	1,322	306,300	108
Lakes Huron and St. Clair	102	8,383	5,068	6,092	639,600	76
Lake Michigan	184	7,949	4,649	4,582	836,100	105
Lake Erie	123	4,806	2,734	2,180	702,000	110
Lake Ontario	8	185	93	49	36,800	199
St. Lawrence river	5	279	141	127	35,500	127

FERRY.

Total	40	4,702	2,933	3,849	498,000	106
Lake Superior	6	365	265	310	23,500	64
Lakes Huron and St. Clair	16	3,436	2,103	2,939	410,000	119
Lake Michigan	10	234	144	80	29,500	126
Lake Erie	5	284	189	229	19,000	67
Lake Ontario	1	109	95	137	2,000	18
St. Lawrence river	2	274	137	154	14,000	51

PLEASURE YACHTS.

Total	54	2,121	1,320	1,128	312,700	147
Lake Superior	4	123	81	41	17,500	142
Lakes Huron and St. Clair	11	367	249	128	74,000	202
Lake Michigan	4	163	109	113	26,000	160
Lake Erie	20	1,056	653	730	136,700	129
Lake Ontario	13	339	192	98	51,000	150
St. Lawrence river	2	73	36	18	7,500	103

STATISTICS OF TRANSPORTATION.

EQUIPMENT, OCCUPATION, AND CONSTRUCTION—Continued.

TABLE 4.—OCCUPATION BY CLASS GROUPS—Continued.

PILE DRIVERS.

LAKES AND RIVER.	Number.	Gross tonnage.	Net tonnage.	Estimated carrying capacity (tons).	Commercial valuation.	Valuation per gross ton.
Total	15	247	150	77	\$53, 500	\$217
Lake Superior	1	5	5	3	4, 000	800
Lakes Huron and St. Clair						
Lake Michigan	14	242	145	74	49, 500	205
Lake Erie						
Lake Ontario						
St. Lawrence river						

SAND DREDGES.

Total	4	303	295	431	14, 000	35
Lake Superior						
Lakes Huron and St. Clair						
Lake Michigan						
Lake Erie	4	398	295	431	14, 000	35
Lake Ontario						
St. Lawrence river						

SAND BOATS.

Total	1	81	71	102	5, 000	62
Lake Superior						
Lakes Huron and St. Clair						
Lake Michigan						
Lake Erie	1	81	71	102	5, 000	62
Lake Ontario						
St. Lawrence river						

FIRE BOATS.

Total	7	631	319	354	195, 000	309
Lake Superior						
Lakes Huron and St. Clair						
Lake Michigan	5	432	219	240	135, 000	313
Lake Erie	2	199	100	114	60, 000	302
Lake Ontario						
St. Lawrence river						

STEAM LIGHTERS.

Total	4	392	368	339	14, 000	36
Lake Superior						
Lakes Huron and St. Clair						
Lake Michigan						
Lake Erie	4	392	368	339	14, 000	36
Lake Ontario						
St. Lawrence river						

UNCLASSIFIED STEAM VESSELS.

Total	55	2, 646	1, 913	1, 895	210, 000	79
Lake Superior	5	90	50	26	7, 500	83
Lakes Huron and St. Clair	6	94	50	27	11, 500	122
Lake Michigan	27	1, 860	1, 394	1, 569	140, 000	75
Lake Erie	9	313	229	176	30, 500	97
Lake Ontario	5	160	107	55	8, 500	53
St. Lawrence river	3	129	83	42	12, 000	93

SCHOONERS.

Total	917	184, 029	174, 869	334, 360	4, 217, 200	23
Lake Superior	31	2, 784	2, 669	5, 143	74, 200	27
Lakes Huron and St. Clair	203	33, 639	31, 836	61, 962	805, 500	24
Lake Michigan	488	76, 442	72, 630	138, 463	1, 481, 500	19
Lake Erie	148	61, 014	58, 099	110, 486	1, 645, 200	27
Lake Ontario	45	9, 726	9, 232	17, 521	202, 300	21
St. Lawrence river	2	424	403	785	8, 500	20

EQUIPMENT, OCCUPATION, AND CONSTRUCTION—Continued.

TABLE 4.—OCCUPATION BY CLASS GROUPS—Continued.

LAKE BARGES.

LAKE AND RIVER.	Number.	Gross tonnage.	Net tonnage.	Estimated carrying capacity (tons).	Commercial valuation.	Valuation per gross ton.
Total	301	138,404	131,407	249,847	\$3,463,500	\$25
Lake Superior	10	7,612	7,388	14,103	345,000	45
Lakes Huron and St. Clair	171	75,849	71,787	136,534	1,772,500	23
Lake Michigan	46	17,353	16,534	31,397	394,500	26
Lake Erie	67	35,772	33,950	64,464	933,000	14
Lake Ontario	1	326	310	589	4,500	9
St. Lawrence river	6	1,492	1,438	2,760	14,000	

SCOWS.

Total	7	996	952	1,833	9,000	9
Lake Superior						
Lakes Huron and St. Clair	2	402	382	732	1,500	4
Lake Michigan	4	486	467	906	7,000	14
Lake Erie						
Lake Ontario	1	108	103	195	500	5
St. Lawrence river						

SLOOPS.

Total	44	1,035	986	1,943	21,350	21
Lake Superior						
Lakes Huron and St. Clair	10	480	455	868	6,550	14
Lake Michigan	12	135	131	335	3,800	28
Lake Erie	2	66	62	118	2,200	33
Lake Ontario	18	292	276	505	8,300	28
St. Lawrence river	2	62	62	117	500	8

YAWLS.

Total	1	17	17	32	300	18
Lake Superior						
Lakes Huron and St. Clair						
Lake Michigan						
Lake Erie	1	17	17	32	300	18
Lake Ontario						
St. Lawrence river						

EQUIPMENT, OCCUPATION, AND CONSTRUCTION—Continued.

TABLE 5.—CONSTRUCTION BY LOCALITIES—MATERIAL, NUMBER, TONNAGE, VALUE, AND AVERAGES OF VALUE AND TONNAGE OF ALL THE LAKE FLEET ENTERED FOR EACH PORT, WITH TOTALS FOR EACH LAKE AND ST. LAWRENCE RIVER.

PORTS.	Material.	Number.	Gross Tonnage.	Valuation.	Average valuation per ton.	Average tonnage.
Total		2, 737	920, 294	\$48, 580, 174	\$53	336
Lake Superior		167	39, 653	2, 763, 500	70	237
Ashland	Wood	1	73	5, 000	68	73
Baraga	do	3	1, 319	44, 000	33	440
Bayfield	do	1	291	6, 000	21	291
Duluth	Steel	3	2, 684	175, 000	65	895
Do	Iron	2	98	20, 000	204	49
Do	Composite	1	37	8, 000	216	37
Do	Wood	33	1, 567	135, 300	86	47
Marquette	Steel	4	9, 904	900, 000	91	2, 476
Do	Wood	107	10, 855	632, 200	58	101
Pequaming	do	4	2, 082	124, 000	60	521
Republic	do	4	5, 314	239, 000	45	1, 329
Sault Ste. Marie	do	2	477	25, 000	52	239
Superior	Steel	2	4, 952	450, 000	91	2, 476
Lakes Huron and St. Clair		726	262, 833	13, 107, 650	50	362
Algonac	Wood	6	2, 345	46, 000	20	391
Alpena	Steel	1	1, 117	100, 000	90	1, 117
Do	Wood	8	3, 867	66, 400	17	483
Bay city	Iron	1	306	25, 000	82	306
Do	Wood	55	30, 870	1, 121, 100	36	561
Caseville	do	1	298	4, 000	13	798
Cheboygan	do	2	83	7, 500	90	42
Detroit	Steel	3	5, 354	805, 000	150	1, 785
Do	Iron	7	6, 096	706, 000	116	870
Do	Composite	7	13, 175	1, 100, 000	83	1, 882
Do	Wood	258	105, 149	4, 936, 800	47	408
East China	do	2	1, 449	67, 000	46	725
East Saginaw	do	30	13, 261	419, 600	32	442
Marine	do	23	9, 875	230, 800	23	429
Mount Clemens	do	2	504	1, 500	3	252
New Baltimore	do	2	147	11, 000	75	74
Oscoda	do	3	1, 289	17, 000	13	430
Port Huron	Iron	1	161	12, 000	75	161
Do	Composite	1	58	15, 000	259	58
Do	Wood	291	61, 263	3, 226, 950	53	211
Saginaw	do	10	2, 829	88, 500	31	283
St. Clair	do	12	3, 343	100, 500	80	279
Lake Michigan		1, 003	196, 216	9, 114, 400	46	196
Benton Harbor	Wood	3	699	39, 500	57	233
Charlevoix	do	6	488	12, 800	26	81
Chicago	Steel	2	3, 481	335, 000	96	1, 741
Do	Iron	2	365	30, 000	82	183
Do	Wood	335	67, 414	2, 723, 350	40	201
Escanaba	do	5	1, 615	52, 000	32	323
Fort Howard	do	2	222	5, 500	25	111
Frankfort	do	1	7	1, 000	143	7
Grand Haven	Steel	1	45	7, 000	156	45
Do	Iron	5	2, 534	321, 000	127	507
Do	Wood	219	19, 729	1, 280, 650	65	90
Green Bay	do	10	3, 300	115, 000	35	330
Holland	do	2	220	3, 000	14	110
Kenosha	do	19	7, 378	358, 900	49	388
Kewaunee	do	1	160	3, 000	19	160
Ludington	do	4	752	12, 000	16	188
Manistee	do	11	2, 732	54, 000	20	248
Manitowoc	do	15	1, 775	34, 600	19	118
Menominee	do	1	277	2, 500	9	277
Milwaukee	Iron	3	1, 070	82, 000	77	357
Do	Wood	256	60, 624	3, 123, 000	52	237
Montague	do	1	217	4, 000	18	109
Muskegon	do	17	3, 088	63, 100	20	182
Northport	do	1	63	7, 000	111	63
Onekama	do	1	146	3, 500	24	146
Pentwater	do	2	260	4, 500	17	130
Peshigo	do	3	1, 704	52, 500	31	568
Petoskey	do	1	123	12, 000	98	123
Racine	do	26	6, 932	145, 400	21	267
St. James	do	1	81	1, 500	19	81
St. Joseph	do	2	164	1, 000	6	82
Saugatuck	do	3	647	33, 500	52	216
Sheboygan	do	25	4, 115	79, 900	19	165
South Haven	do	4	374	5, 100	14	94

EQUIPMENT, OCCUPATION, AND CONSTRUCTION—Continued.

TABLE 5.—CONSTRUCTION BY LOCALITIES—Continued.

PORTS.	Material.	Number.	Gross tonnage.	Valuation.	Average valuation per ton.	Average tonnage.
Lake Michigan—Continued.						
Spring Lake	Wood	2	345	\$8,000	\$23	172
Sturgeon Bay	do	2	550	5,000	9	275
Suttons Bay	do	1	232	3,000	13	232
Traverse	do	1	336	20,000	60	336
Troy	do	1	301	7,000	23	301
Waukegan	do	2	1,296	58,000	45	648
Waukesha	do	1	48	600	13	48
Whitehall	do	2	307	4,000	13	154
Lake Erie		667	392,903	22,163,824	56	589
Ashtabula	Wood	4	175	27,000	154	44
Avon	do	1	264	5,000	19	264
Buffalo	Steel	14	29,853	2,950,000	99	2,132
Do	Iron	12	8,779	753,224	86	732
Do	Composite	1	1,399	90,000	64	1,399
Do	Wood	177	88,829	4,441,900	50	502
Cleveland	Steel	4	13,839	1,252,000	90	1,730
Do	Iron	3	6,147	515,000	84	2,049
Do	Wood	208	143,241	7,035,800	49	689
Dunkirk	do	3	522	29,000	56	174
Erie	Steel	1	2,500	225,000	90	2,500
Do	Iron	7	9,886	711,000	72	1,412
Do	Wood	29	17,068	823,900	48	589
Fairport	do	5	316	17,000	54	63
Fremont	do	2	20	1,800	90	10
Gratwick	do	1	538	28,000	52	538
Huron	do	12	5,091	274,700	54	424
Lorain	Steel	1	1,759	150,000	85	1,759
Do	Wood	17	6,862	171,500	25	404
Milan	do	6	6,824	323,500	47	1,137
Norwalk	do	2	1,344	51,000	38	672
Port Clinton	do	1	56	5,000	89	56
Put in Bay	do	1	168	6,000	36	168
Suspension Bridge	do	3	346	19,000	55	115
Sandusky	do	64	18,303	865,200	47	386
Toledo	Iron	1	173	17,000	98	173
Do	Wood	58	17,854	890,300	50	308
Tonawanda	do	19	5,696	287,000	50	300
Vermilion	do	6	5,051	198,000	39	842
Lake Ontario		131	15,859	676,300	43	121
Cape Vincent	Wood	52	2,220	126,500	57	43
Charlotte	do	1	309	6,000	19	309
Chaumont	do	1	175	3,000	17	175
Hamlin	do	1	246	4,000	16	246
Henderson	do	1	9	2,000	222	9
Medina	do	42	8,842	402,000	45	211
Oswego	do	1	80	1,500	19	80
Pultneyville	do	1	87	15,000	172	87
Rochester	Composite	20	2,189	75,900	35	109
Do	Wood	5	521	7,700	15	104
Sacketts Harbor	do	2	296	8,000	27	148
Sodus Point	do	1	555	18,000	32	555
Troy	do	2	280	5,000	18	140
Wilson	do	1	50	1,700	34	50
Youngstown	do	1	50	1,700	34	50
St. Lawrence river		43	12,830	754,500	59	298
Alexandria Bay	Wood	3	37	5,000	135	12
Clayton	Iron	1	313	33,000	105	313
Do	Wood	6	1,015	36,500	36	169
Ogdensburg	do	33	11,465	680,000	59	347

EQUIPMENT, OCCUPATION, AND CONSTRUCTION—Continued.

TABLE 6.—CONSTRUCTION BY MATERIALS—MATERIAL, NUMBER, TONNAGE, VALUE, AND AVERAGES OF VALUE AND TONNAGE OF ALL THE LAKE FLEET ENTERED BY EACH PORT, BUT GROUPED TO SHOW THE TOTALS FOR EACH MATERIAL OF CONSTRUCTION.

STEEL.						WOOD.					
PORTS.	Number.	Tonnage.	Valuation.	Average valuation per ton.	Average tonnage.	PORTS.	Number.	Tonnage.	Valuation.	Average valuation per ton.	Average tonnage.
Total	40	75,488	\$7,349,000	\$97	1,887	Total	2,641	794,128	\$36,777,950	\$46	301
Lake Superior	9	17,540	1,525,000	87	1,949	Lake Superior	155	21,978	1,210,500	55	142
Duluth	3	2,684	175,000	65	895	Ashland	1	73	5,000	68	73
Marquette	4	9,904	900,000	91	2,476	Baraga	3	1,319	44,000	33	440
Superior	2	4,952	450,000	91	2,476	Bayfield	1	291	6,000	21	291
Lakes Huron and St. Clair ..	4	6,471	905,000	140	1,618	Duluth	33	1,567	135,300	86	47
Alpena	1	1,117	100,000	90	1,117	Marquette	107	10,855	632,200	58	101
Detroit	3	5,854	805,000	150	1,785	Pequaming	1	2,082	124,000	60	521
Lake Michigan	3	3,526	342,000	97	1,175	Republic	4	5,314	239,000	45	1,329
Chicago	2	3,481	335,000	96	1,741	Sault Ste. Marie	2	477	25,000	52	239
Grand Haven	1	45	7,000	156	45	Lakes Huron and St. Clair ..	705	236,572	10,344,650	44	336
Lake Erie	24	47,951	4,577,000	95	1,998	Algona	6	2,345	46,000	20	391
Buffalo	14	29,853	2,950,000	99	2,132	Alpena	8	3,867	66,400	17	483
Cleveland	8	13,839	1,252,000	90	1,730	Bay city	55	30,870	1,121,100	36	561
Erie	1	2,500	225,000	90	2,500	Caseville	1	298	4,000	13	298
Lorain	1	1,759	150,000	85	1,759	Cheboygan	2	83	7,500	90	42
IRON.						Detroit	258	105,149	4,936,800	47	408
Total	45	35,922	3,225,224	90	798	East China	2	1,449	67,000	46	725
Lake Superior	2	98	20,000	204	49	East Saginaw	30	13,261	419,600	32	442
Duluth	2	98	20,000	204	49	Marine	23	9,875	230,800	23	429
Lakes Huron and St. Clair ..	9	6,557	743,000	113	729	Mount Clemens	2	504	1,500	3	252
Bay city	1	306	25,000	82	306	New Baltimore	2	147	11,000	75	74
Detroit	7	6,090	706,000	116	870	Oscoda	3	1,289	17,000	13	430
Port Huron	1	161	12,000	75	161	Port Huron	291	61,263	3,226,950	53	211
Lake Michigan	10	3,969	433,000	109	397	Saginaw	10	2,829	88,500	81	283
Chicago	2	365	30,000	82	183	St. Clair	12	3,343	100,500	30	279
Grand Haven	5	2,534	321,000	127	507	Lake Michigan	990	188,721	8,339,400	44	190
Milwaukee	3	1,070	82,000	77	357	Benton Harbor	3	699	39,500	57	233
Lake Erie	23	24,985	1,996,224	80	1,086	Charlevoix	6	488	12,800	26	81
Buffalo	12	8,779	753,224	86	732	Chicago	335	67,414	2,723,350	40	201
Cleveland	3	6,147	515,000	84	2,049	Escanaba	5	1,615	52,000	32	323
Erie	7	9,886	711,000	72	1,412	Fort Howard	2	222	5,500	25	111
Toledo	1	173	17,000	98	173	Frankfort	1	7	1,000	143	7
St. Lawrence river	1	313	33,000	105	313	Grand Haven	219	19,729	1,280,650	65	90
Clayton	1	313	33,000	105	313	Green Bay	10	3,300	115,000	35	330
COMPOSITE.						Holland	2	220	3,000	14	110
Total	11	14,756	1,228,000	83	1,341	Kenosha	19	7,378	358,900	49	388
Lake Superior	1	37	8,000	216	37	Kewaunee	1	160	3,000	19	160
Duluth	1	37	8,000	216	37	Ludington	4	752	12,000	16	188
Lakes Huron and St. Clair ..	8	13,233	1,115,000	84	1,654	Manistee	11	2,732	54,000	20	248
Detroit	7	13,175	1,100,000	83	1,882	Manitowoc	15	1,775	34,600	19	118
Port Huron	1	58	15,000	259	58	Menominee	1	277	2,500	9	277
Lake Erie	1	1,399	90,000	64	1,399	Milwaukee	256	60,624	3,123,000	52	237
Buffalo	1	1,399	90,000	64	1,399	Montague	2	217	4,000	18	109
Lake Ontario	1	87	15,000	172	87	Muskegon	17	3,088	63,100	20	182
Rochester	1	87	15,000	172	87	Northport	1	63	7,000	111	63
						Onekama	1	146	3,500	24	146
						Pentwater	2	260	4,500	17	130
						Peshigo	3	1,704	52,500	31	568
						Petoskey	1	123	12,000	98	123
						Racine	20	6,932	145,400	21	267
						St. James	1	81	1,500	19	81
						St. Joseph	2	164	1,000	6	82
						Saugatuck	3	647	33,500	52	216
						Sheboygan	25	4,115	79,900	19	165
						South Haven	4	374	5,100	14	94
						Spring Lake	2	315	8,000	23	172
						Sturgeon Bay	2	550	5,000	9	275
						Suttons Bay	1	232	3,000	13	232
						Traverse	1	336	20,000	60	336
						Troy	1	301	7,000	23	301
						Waukegan	2	1,296	58,000	45	648
						Waukesha	1	48	600	13	48
						Whitehall	2	307	4,000	13	154
						Lake Erie and Niagara river ..	619	318,568	15,500,600	49	515
						Ashtabula	4	175	27,000	154	44
						Avon	1	264	5,000	18	264
						Buffalo	177	88,829	4,441,900	50	502
						Cleveland	208	143,241	7,035,800	49	689
						Dunkirk	3	522	29,000	56	174
						Erie	29	17,068	823,900	48	589
						Fairport	5	316	17,000	54	63
						Fremont	2	20	1,800	90	10
						Gratwick	1	538	28,000	52	538
						Huron	12	5,091	274,700	54	424
						Lorain	17	6,862	171,500	25	404
						Milan	6	6,824	323,500	47	1,137
						Norwalk	2	1,344	51,000	38	672

EQUIPMENT, OCCUPATION, AND CONSTRUCTION—Continued.

TABLE 6.—CONSTRUCTION BY MATERIALS—Continued.

WOOD—Continued.						WOOD—Continued.					
PORTS.	Number.	Tonnage.	Valuation.	Average valuation per ton.	Average tonnage.	PORTS.	Number.	Tonnage.	Valuation.	Average valuation per ton.	Average tonnage.
Lake Erie and Niagara river—Continued.						Lake Ontario—Continued.					
Port Clinton.....	1	56	\$5,000	\$89	56	Sodus Point.....	2	296	\$8,000	\$27	148
Put in Bay.....	1	168	6,000	36	168	Troy.....	1	555	18,000	32	555
Suspension Bridge.....	3	346	19,000	55	115	Wilson.....	2	280	5,000	18	140
Sandusky.....	64	18,303	865,200	47	286	Youngstown.....	1	50	1,700	34	50
Toledo.....	58	17,854	890,300	50	308	St. Lawrence river.....	42	12,517	721,500	58	298
Tonawanda.....	19	5,696	287,000	50	300	Alexandria Bay.....	3	37	5,000	135	12
Vermilion.....	6	5,051	198,000	39	842	Clayton.....	6	1,015	36,500	36	169
Lake Ontario.....	130	15,772	661,300	42	121	Ogdensburg.....	33	11,465	680,000	59	347
Cape Vincent.....	52	2,220	126,500	57	43	RECAPITULATION—ALL MATERIALS.					
Charlotte.....	1	309	6,000	19	309	Total.....	2,737	920,294	48,580,174	53	336
Chaumont.....	1	175	3,000	17	175	Steel.....	40	75,488	7,349,000	97	1,887
Hamlin.....	1	246	4,000	16	246	Iron.....	45	35,922	3,225,224	90	798
Henderson.....	1					Composite.....	11	14,756	1,228,000	83	1,341
Medina.....	1	9	2,000	222	9	Wood.....	2,641	794,128	36,777,950	46	301
Oswego.....	42	8,842	402,000	45	211						
Pultneyville.....	1	80	1,500	19	80						
Rochester.....	20	2,189	75,900	35	109						
Sacketts Harbor.....	5	521	7,700	15	104						

STATISTICS OF TRANSPORTATION.

TRAFFIC OPERATIONS.

TABLE 7.—FREIGHT MOVEMENT IN GENERAL—RECEIPTS, SHIPMENTS, AND TOTAL MOVEMENT OF FREIGHT BY LAKE AND RIVER TOTALS, CLASSED BY PRINCIPAL PRODUCTS, TOGETHER WITH CERTAIN PERCENTAGES OF TRAFFIC APPLIED TO LOCALITIES AND COMMODITIES.

SUMMARY FOR ALL LAKES AND ST. LAWRENCE RIVER.

COMMODITIES.	TOTAL MOVEMENT.			RECEIPTS.			SHIPMENTS.			EXCESS OF RECEIPTS OVER SHIPMENTS.				EXCESS OF SHIPMENTS OVER RECEIPTS.		
	Amount in tons.	Per cent of total traffic.	Per cent of total commodity.	Amount in tons.	Per cent of total traffic.	Per cent of total commodity.	Amount in tons.	Per cent of total traffic.	Per cent of total commodity.	Amount in tons.	Per cent of commodity.	Per cent of class.	Per cent of aggregate.	Amount in tons.	Per cent of commodity.	Per cent of class.
Total	51,203,106	100.00	100	25,936,132	100.00	100	25,266,974	100.00	100	669,158			2.58			
Class I.—Products of agriculture.	8,449,806	16.50	100	4,041,738	15.58	100	4,408,068	17.45	100					366,330		8.31
Wheat	1,888,312	3.69	100	919,162	3.54	100	969,150	3.84	100					49,988	5.16	
Corn	3,513,515	6.86	100	1,583,901	6.11	100	1,929,614	7.64	100					345,713	17.92	
Other grains ..	980,514	1.92	100	477,397	1.84	100	503,117	1.99	100					25,720	5.11	
Mill products ..	1,886,189	3.68	100	992,066	3.82	100	894,123	3.54	100	97,943	9.87					
All other farm products.	181,276	0.35	100	69,212	0.27	100	112,064	0.44	100					42,852	38.24	
Class II.—Products of mines and quarries.	27,763,277	54.22	100	13,454,189	51.88	100	14,308,989	56.63	100					854,800		5.97
Coal and coke ..	11,268,200	22.00	100	5,162,471	19.91	100	6,105,799	24.17	100					943,328	15.45	
Iron ore	15,303,180	29.89	100	7,626,073	29.40	100	7,677,107	30.38	100					51,034	0.66	
Stone (all kinds)	547,229	1.07	100	311,015	1.20	100	236,214	0.93	100	74,801	24.05					
Salt	549,850	1.07	100	296,513	1.14	100	252,837	1.00	100	43,676	14.72					
Other products of mines and quarries.	95,149	0.19	100	58,117	0.23	100	37,032	0.15	100	21,085	36.28					
Class III.—Other products.	12,331,236	24.09	100	6,921,985	26.69	100	5,409,251	21.41	100	1,512,734		21.85				
Animal products	125,581	0.25	100	64,728	0.25	100	60,853	0.24	100	3,875	5.99					
Lumber	12,205,655	23.84	100	6,857,257	26.44	100	5,348,398	21.17	100	1,508,859	22.00					
Class IV.—Manufactures, miscellaneous merchandise, and other commodities.	2,658,886	5.19	100	1,518,220	5.85	100	1,140,666	4.51	100	377,554	24.87					

LAKE SUPERIOR.

COMMODITIES.	TOTAL MOVEMENT.			RECEIPTS.			SHIPMENTS.		
	Amount in tons.	Per cent of total lake traffic.	Per cent of total commodity traffic on the Great Lakes.	Amount in tons.	Per cent of total lake traffic.	Per cent of total commodity traffic on the Great Lakes.	Amount in tons.	Per cent of total lake traffic.	Per cent of total commodity traffic on the Great Lakes.
Total	7,925,930	100.00	15.48	2,491,149	100.00	9.60	5,434,781	100.00	21.51
Class I.—Products of agriculture	663,930	8.38	7.86	1,886	0.08	0.05	662,044	12.18	15.02
Wheat	399,355	5.04	21.15				399,355	7.35	41.21
Corn	55,134	0.70	1.57	22			55,112	1.01	2.86
Other grains	1,846	0.02	0.19	464	0.02	0.10	1,382	0.02	0.27
Mill products	205,720	2.60	10.91	493	0.02	0.05	205,227	3.78	22.95
All other farm products	1,875	0.02	1.03	907	0.04	1.31	968	0.02	0.86
Class II.—Products of mines and quarries	6,072,985	76.62	21.87	1,855,072	74.47	13.79	4,217,913	77.61	29.48
Coal and coke	1,780,750	22.47	15.80	1,754,675	70.44	33.99	26,075	0.48	0.43
Iron ore	4,151,748	52.38	27.13	10,691	0.43	0.14	4,141,057	76.20	53.94
Stone (all kinds)	87,276	1.10	15.95	69,587	2.79	22.37	17,689	0.32	7.49
Salt	20,142	0.25	3.67	20,119	0.81	6.78	23		0.01
Other products of mines and quarries.	33,069	0.42	34.76				33,069	0.61	89.30
Class III.—Other products	477,981	6.03	3.88	8,281	0.33	0.12	469,700	8.64	8.68
Animal products	1,914	0.02	1.52	371	0.01	0.57	1,543	0.03	2.53
Lumber	476,067	6.01	3.90	7,910	0.32	0.12	468,157	8.61	8.75
Class IV.—Manufactures, miscellaneous merchandise, and other commodities.	711,034	8.97	26.74	625,910	25.12	41.23	85,124	1.57	7.46

TRAFFIC OPERATIONS—Continued.

TABLE 7.—FREIGHT MOVEMENT IN GENERAL—Continued.

LAKES HURON AND ST. CLAIR.

COMMODITIES.	TOTAL MOVEMENT.			RECEIPTS.			SHIPMENTS.		
	Amount in tons.	Per cent of total lake traffic.	Per cent of total commodity traffic on the Great Lakes.	Amount in tons.	Per cent of total lake traffic.	Per cent of total commodity traffic on the Great Lakes.	Amount in tons.	Per cent of total lake traffic.	Per cent of total commodity traffic on the Great Lakes.
Total.....	3,373,807	100.00	6.59	1,029,356	100.00	3.97	2,344,451	100.00	9.27
Class I.—Products of agriculture.....	195,619	5.80	2.31	68,553	6.66	1.69	127,066	5.42	2.88
Wheat.....	110,663	3.28	5.86	29,246	2.84	3.18	81,417	3.47	8.40
Corn.....	38,448	1.14	1.09	10,688	1.04	0.68	27,760	1.18	1.44
Other grains.....	22,479	0.67	2.29	16,275	1.58	3.41	6,204	0.27	1.23
Mill products.....	16,792	0.50	0.89	11,963	1.16	1.21	4,829	0.21	0.54
All other farm products.....	7,237	0.21	3.99	381	0.04	0.55	6,856	0.29	6.12
Class II.—Products of mines and quarries.....	665,583	19.73	2.40	532,175	51.70	3.95	133,408	5.69	0.93
Coal and coke.....	376,321	11.15	3.34	362,747	35.24	7.03	13,574	0.58	0.22
Iron ore.....	180,090	5.34	1.18	117,639	11.43	1.54	62,451	2.66	0.81
Stone (all kinds).....	25,975	0.77	4.75	25,975	2.52	8.35	.....	.....	.....
Salt.....	78,523	2.33	14.30	25,043	2.43	8.45	53,480	2.28	21.15
Other products of mines and quarries.....	4,674	0.14	4.91	771	0.08	1.33	2,903	0.17	10.54
Class III.—Other products.....	2,426,660	71.92	19.68	390,434	37.93	5.69	2,036,226	86.85	37.65
Animal products.....	175	.....	0.14	.....	.....	.....	175	.....	0.29
Lumber.....	2,426,485	71.92	19.88	390,434	37.93	5.69	2,036,051	86.85	38.07
Class IV.—Manufactures, miscellaneous merchandise, and other commodities.....	85,945	2.55	3.23	38,194	3.71	2.52	47,751	2.04	4.19

LAKE MICHIGAN.

Total.....	18,571,258	100.00	36.27	8,480,892	100.00	32.70	10,090,366	100.00	39.94
Class I.—Products of agriculture.....	3,480,217	18.74	41.19	152,793	1.79	3.78	3,327,424	32.98	75.48
Wheat.....	352,019	1.89	18.64	4,553	0.05	0.50	347,466	3.44	35.85
Corn.....	1,778,318	9.58	50.61	6,209	0.07	0.39	1,772,109	17.56	91.84
Other grains.....	500,596	2.70	51.05	10,625	0.12	2.22	489,971	4.86	97.39
Mill products.....	738,833	3.98	39.17	118,423	1.40	11.94	620,410	6.15	69.39
All other farm products.....	110,451	0.59	60.93	12,963	0.15	18.76	97,468	0.97	86.98
Class II.—Products of mines and quarries.....	7,784,066	41.91	28.04	4,151,379	48.95	30.85	3,632,687	35.99	25.39
Coal and coke.....	2,865,278	15.43	25.43	2,865,021	33.78	55.50	257	.....	.....
Iron ore.....	4,451,577	23.97	29.09	1,004,630	11.85	13.17	3,446,947	34.16	44.90
Stone (all kinds).....	63,410	0.34	11.59	51,944	0.61	16.70	11,466	0.11	4.86
Salt.....	399,539	2.16	72.73	225,582	2.66	76.08	173,957	1.72	68.80
Other products of mines and quarries.....	4,262	0.02	4.48	4,202	0.05	7.23	60	.....	0.16
Class III.—Other products.....	6,447,442	34.72	52.28	3,552,071	41.89	51.32	2,895,371	28.70	53.53
Animal products.....	62,283	0.34	49.60	3,148	0.04	4.86	59,135	0.59	97.18
Lumber.....	6,385,159	34.38	52.31	3,548,923	41.85	51.75	2,836,236	28.11	53.03
Class IV.—Manufactures, miscellaneous merchandise, and other commodities.....	859,533	4.63	32.33	624,649	7.37	41.14	234,884	2.33	20.59

STATISTICS OF TRANSPORTATION.

TRAFFIC OPERATIONS—Continued.

TABLE 7.—FREIGHT MOVEMENT IN GENERAL—Continued.

LAKE ERIE.

COMMODITIES.	TOTAL MOVEMENT.			RECEIPTS.			SHIPMENTS.		
	Amount in tons.	Per cent of total lake traffic.	Per cent of total commodity traffic on the Great Lakes.	Amount in tons.	Per cent of total lake traffic.	Per cent of total commodity traffic on the Great Lakes.	Amount in tons.	Per cent of total lake traffic.	Per cent of total commodity traffic on the Great Lakes.
Total	19,343,875	100.00	37.78	12,957,483	100.00	49.96	6,386,392	100.00	25.28
Class I.—Products of agriculture.....	3,735,845	19.31	44.21	3,450,723	26.63	85.38	285,122	4.46	6.47
Wheat	978,733	5.06	51.83	837,821	6.47	91.15	140,912	2.20	14.54
Corn	1,493,145	7.72	42.50	1,418,617	10.95	89.56	74,528	1.17	3.86
Other grains	336,684	1.74	34.34	331,124	2.55	69.36	5,560	0.09	1.11
Mill products	878,067	4.54	46.55	814,410	6.28	82.09	63,657	1.00	7.12
All other farm products	49,216	0.25	27.15	48,751	0.38	70.44	465	.....	0.41
Class II.—Products of mines and quarries ..	12,276,929	63.47	44.22	6,826,175	52.68	50.74	5,450,754	85.35	38.09
Coal and coke	5,294,047	27.37	46.98	97,865	0.75	1.89	5,196,182	81.36	85.11
Iron ore	6,517,162	33.69	42.58	6,490,518	50.09	85.11	26,644	0.42	0.35
Stone (all kinds)	364,380	1.89	66.58	161,779	1.25	52.02	202,601	3.17	85.77
Salt	50,988	0.26	9.28	25,661	0.20	8.65	25,327	0.40	10.02
Other products of mines and quarries ..	50,352	0.26	52.92	50,352	0.39	86.64	.....	.....	.....
Class III.—Other products.....	2,510,600	12.98	20.36	2,504,400	19.33	36.18	6,200	0.10	0.12
Animal products	59,820	0.31	47.63	59,820	0.46	92.42	.....	.....	.....
Lumber	2,450,780	12.67	20.08	2,444,580	18.87	35.65	6,200	0.10	0.12
Class IV.—Manufactures, miscellaneous merchandise, and other commodities.	820,501	4.24	30.86	176,185	1.36	11.60	644,316	10.09	56.49

LAKE ONTARIO.

Total	1,256,947	100.00	2.45	485,220	100.00	1.87	771,727	100.00	3.05
Class I.—Products of agriculture.....	131,046	10.43	1.55	130,246	26.84	3.22	800	0.11	0.02
Wheat	20,483	1.63	1.09	20,483	4.22	2.23	.....	.....	.....
Corn	16,439	1.31	0.47	16,438	3.39	1.04	1	.....	.....
Other grains	89,178	7.10	9.10	89,178	18.38	18.68	.....	.....	.....
Mill products	7	.....	.....	7	.....	.....	.....	.....	.....
All other farm products	4,939	0.39	2.73	4,140	0.85	5.98	799	0.11	0.71
Class II.—Products of mines and quarries ..	773,652	61.55	2.79	9,239	1.91	0.07	764,413	99.05	5.34
Coal and coke	771,573	61.38	6.85	7,218	1.49	0.14	764,355	99.05	12.52
Iron ore .....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stone (all kinds)	1,738	0.14	0.32	1,730	0.36	0.56	8	.....	.....
Salt	129	0.01	0.02	79	0.02	0.03	50	.....	0.02
Other products of mines and quarries ..	212	0.02	0.22	212	0.04	0.36	.....	.....	.....
Class III.—Other products.....	320,843	25.52	2.60	320,831	66.12	4.63	12	.....	.....
Animal products	601	0.05	0.48	601	0.12	0.93	.....	.....	.....
Lumber	320,242	25.47	2.62	320,230	66.00	4.67	12	.....	.....
Class IV.—Manufactures, miscellaneous merchandise, and other commodities.	31,406	2.50	1.18	24,904	5.13	1.64	6,502	0.84	0.57

TRAFFIC OPERATIONS—Continued.

TABLE 7.—FREIGHT MOVEMENT IN GENERAL—Continued.

ST. LAWRENCE RIVER.

COMMODITIES.	TOTAL MOVEMENT.			RECEIPTS.			SHIPMENTS.		
	Amount in tons.	Per cent of total lake traffic.	Per cent of total commodity traffic on the Great Lakes.	Amount in tons.	Per cent of total lake traffic.	Per cent of total commodity traffic on the Great Lakes.	Amount in tons.	Per cent of total lake traffic.	Per cent of total commodity traffic on the Great Lakes.
Total	731, 289	100. 00	1. 43	492, 032	100. 00	1. 90	239, 257	100. 00	0. 95
Class I.—Products of agriculture.....	243, 149	33. 25	2. 88	237, 537	48. 28	5. 88	5, 612	2. 34	0. 13
Wheat.....	27, 059	3. 70	1. 43	27, 059	5. 50	2. 94	.....	.....	.....
Corn.....	132, 031	18. 05	3. 76	131, 927	26. 81	8. 33	104	0. 04	.....
Other grains.....	29, 731	4. 07	3. 03	29, 731	6. 04	6. 23	.....	.....	.....
Mill products.....	46, 770	6. 40	2. 48	46, 770	9. 51	4. 71	.....	.....	.....
All other farm products.....	7, 558	1. 03	4. 17	2, 050	0. 42	2. 96	5, 508	2. 30	4. 92
Class II.—Products of mines and quarries.	189, 963	25. 98	0. 68	80, 149	16. 29	0. 60	109, 814	45. 90	0. 77
Coal and coke.....	180, 301	24. 66	1. 60	74, 945	15. 23	1. 45	105, 356	44. 04	1. 72
Iron ore.....	2, 603	0. 36	0. 02	2, 595	0. 53	0. 04	8	.....	.....
Stone (all kinds).....	4, 450	0. 61	0. 81	.....	.....	.....	4, 450	1. 86	1. 88
Salt.....	29	.....	.....	29	.....	0. 01	.....	.....	.....
Other products of mines and quarries.	2, 580	0. 35	2. 71	2, 580	0. 53	4. 44	.....	.....	.....
Class III.—Other products.....	147, 710	20. 20	1. 20	145, 968	29. 66	2. 11	1, 742	0. 73	0. 03
Animal products.....	788	0. 11	0. 63	788	0. 16	1. 22	.....	.....	.....
Lumber.....	146, 922	20. 09	1. 21	145, 180	29. 50	2. 12	1, 742	0. 73	0. 03
Class IV.—Manufactures, miscellaneous merchandise, and other commodities.	150, 467	20. 57	5. 66	28, 378	5. 77	1. 87	122, 089	51. 03	10. 70

STATISTICS OF TRANSPORTATION.

TRAFFIC OPERATIONS—Continued.

TABLE 8.—FREIGHT MOVEMENT IN GENERAL, BY PRINCIPAL PORTS—RECEIPTS, SHIPMENTS, AND TOTAL TRAFFIC MOVEMENT, GROUPED ACCORDING TO THE 13 PRINCIPAL PRODUCTS AND ALLOTTED TO THE 31 PRINCIPAL PORTS, TOGETHER WITH CERTAIN PERCENTAGES OF TRAFFIC APPLIED TO COMMODITIES, AND THE TOTAL FREIGHT MOVEMENT.

TOTAL OF ALL PRODUCTS.

PORTS.	TOTAL MOVEMENT.			RECEIPTS.			SHIPMENTS.		
	Amount in tons.	Per cent of total commodity traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total commodity traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total commodity traffic.	Per cent of total port traffic.
Total.....	51,203,106	100.00	100	25,936,132	100.00	100	25,266,974	100.00	100
Chicago (a).....	7,984,038	15.59	100	5,069,973	19.55	100	2,914,065	11.53	100
Buffalo.....	6,730,137	13.14	100	4,046,144	15.60	100	2,683,993	10.62	100
Escanaba.....	3,626,390	7.08	100	195,558	0.75	100	3,430,832	13.58	100
Cleveland.....	3,621,570	7.07	100	2,737,708	10.56	100	883,862	3.50	100
Ashtabula.....	2,695,180	5.26	100	2,205,595	8.50	100	489,585	1.94	100
Ashland.....	2,247,242	4.39	100	487,358	1.88	100	1,759,884	6.97	100
Milwaukee.....	1,935,808	3.78	100	1,584,254	6.11	100	351,554	1.39	100
Marquette.....	1,710,885	3.34	100	143,346	0.55	100	1,567,539	6.20	100
Toledo.....	1,436,991	2.81	100	506,351	1.95	100	930,640	3.68	100
Erie.....	1,271,988	2.48	100	773,030	2.98	100	498,958	1.97	100
Superior.....	1,180,297	2.31	100	875,692	3.38	100	304,605	1.21	100
Duluth.....	1,114,048	2.18	100	683,162	2.63	100	430,886	1.71	100
Tonawanda.....	1,046,895	2.04	100	1,046,895	4.04	100			
Muskegon.....	1,002,743	1.96	100	151,303	0.58	100	851,440	3.37	100
Fairport.....	998,459	1.95	100	939,021	3.62	100	59,438	0.24	100
Two Harbors.....	936,541	1.83	100				936,541	3.71	100
Detroit.....	764,553	1.49	100	615,750	2.37	100	148,803	0.59	100
Oswego.....	691,118	1.35	100	402,847	1.55	100	288,271	1.14	100
Ogdensburg.....	662,904	1.30	100	470,044	1.81	100	192,860	0.76	100
Manistee.....	629,910	1.23	100	28,096	0.11	100	601,814	2.38	100
Ludington.....	627,627	1.23	100	276,229	1.06	100	351,398	1.39	100
Lorain.....	620,773	1.21	100	346,899	1.34	100	273,874	1.08	100
Sandusky.....	602,403	1.18	100	305,029	1.18	100	297,374	1.18	100
Bay city.....	553,219	1.08	100	66,246	0.26	100	486,973	1.93	100
Oscoda.....	490,413	0.96	100				490,413	1.94	100
Alpena.....	386,868	0.76	100	11,969	0.05	100	374,899	1.48	100
Charlotte.....	368,361	0.72	100	18,318	0.07	100	350,043	1.39	100
Marinette.....	346,246	0.68	100	4,244	0.02	100	342,002	1.35	100
Gladstone.....	287,590	0.56	100	132,356	0.51	100	155,234	0.61	100
Houghton.....	286,191	0.56	100	208,047	0.80	100	78,144	0.31	100
Menominee.....	272,529	0.53	100	7,426	0.03	100	265,103	1.05	100
All other ports.....	4,073,189	7.95	100	1,597,242	6.16	100	2,475,947	9.80	100

a Including South Chicago.

TRAFFIC OPERATIONS—Continued.

TABLE 8.—FREIGHT MOVEMENT IN GENERAL, BY PRINCIPAL PORTS—Continued.

A.—PRODUCTS OF AGRICULTURE.

PORTS.	AGGREGATE.								
	Total movement.			Receipts.			Shipments.		
	Amount in tons.	Per cent of total product of agriculture traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total product of agriculture traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total product of agriculture traffic.	Per cent of total port traffic.
Total.....	8,449,806	100.00	16.50	4,041,738	100.00	15.58	4,408,068	100.00	17.45
Chicago (a).....	2,829,895	33.49	35.45	10,854	0.27	0.21	2,819,041	63.95	96.74
Buffalo.....	3,132,433	37.07	46.54	3,132,433	77.50	77.42			
Escanaba.....	4,543	0.05	0.13	35	0.02	0.02	4,508	0.10	0.13
Cleveland.....	25,440	0.30	0.70	24,649	0.61	0.90	791	0.02	0.09
Ashtabula.....									
Ashland.....									
Milwaukee.....	348,782	4.13	18.02	120		0.01	348,662	7.91	99.18
Marquette.....	8			8					
Toledo.....	275,532	3.26	19.17				275,532	6.25	29.61
Erie.....	293,641	3.48	23.08	293,641	7.27	37.99			
Superior.....	292,410	3.46	24.77				292,410	6.64	96.00
Duluth.....	362,889	4.30	32.57				362,889	8.23	84.22
Tonawanda.....									
Muskegon.....	5,327	0.06	0.53	5,327	0.13	3.52			
Fairport.....									
Two Harbors.....									
Detroit.....	121,832	1.44	15.94	7,148	0.18	1.16	114,684	2.60	77.07
Oswego.....	116,068	1.37	16.79	116,068	2.87	28.81			
Ogdensburg.....	242,456	2.87	36.57	237,332	5.87	50.49	5,124	0.12	2.66
Manistee.....	6,208	0.07	0.98	6,196	0.15	22.05	12		
Ludington.....	61,288	0.73	9.76	61,288	1.52	22.19			
Lorain.....									
Sandusky.....	8,063	0.10	1.34				8,063	0.18	2.71
Bay city.....									
Oscoda.....	94		0.02				94		0.02
Alpena.....	5,144	0.06	1.33	5,144	0.13	42.98			
Charlotte.....	5,406	0.06	1.47	5,406	0.14	29.51			
Marinette.....	16			16		0.38			
Gladstone.....	72,354	0.86	25.16				72,354	1.64	46.61
Houghton.....									
Menominee.....	80		0.03	80		1.08			
All other ports.....	239,897	2.84	5.89	135,993	3.36	8.51	103,904	2.36	4.20

PORTS.	WHEAT.								
	Total movement.			Receipts.			Shipments.		
	Amount in tons.	Per cent of total wheat traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total wheat traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total wheat traffic.	Per cent of total port traffic.
Total.....	1,888,312	100.00	3.69	919,162	100.00	3.54	969,150	100.00	3.84
Chicago (a).....	312,203	16.53	3.91				312,203	32.21	10.71
Buffalo.....	781,548	41.39	11.61	781,548	85.03	19.32			
Escanaba.....									
Cleveland.....	22,494	1.19	0.62	22,494	2.45	0.82			
Ashtabula.....									
Ashland.....									
Milwaukee.....	29,191	1.55	1.51				29,191	3.01	8.30
Marquette.....									
Toledo.....	132,363	7.01	9.21				132,363	13.66	14.22
Erie.....	33,779	1.79	2.65	33,779	3.67	4.37			
Superior.....	191,623	10.15	16.23				191,623	19.77	62.91
Duluth.....	207,732	11.00	18.64				207,732	21.44	48.21
Tonawanda.....									
Muskegon.....	692	0.04	0.07	692	0.08	0.46			
Fairport.....									
Two Harbors.....									
Detroit.....	82,576	4.37	10.80	1,819	0.20	0.30	80,757	8.33	54.27
Oswego.....	19,297	1.02	2.79	19,297	2.10	4.79			
Ogdensburg.....	27,058	1.43	4.08	27,058	2.94	5.76			
Manistee.....									
Ludington.....									
Lorain.....									
Sandusky.....	8,063	0.43	1.34				8,063	0.83	2.71
Bay city.....									
Oscoda.....									
Alpena.....									
Charlotte.....									
Marinette.....									
Gladstone.....	1,500	0.08	0.52				1,500	0.16	0.97
Houghton.....									
Menominee.....									
All other ports.....	38,193	2.02	0.94	32,475	3.53	2.03	5,718	0.59	0.23

a Including South Chicago.

STATISTICS OF TRANSPORTATION.

TRAFFIC OPERATIONS—Continued.

TABLE 8.—FREIGHT MOVEMENT IN GENERAL, BY PRINCIPAL PORTS—Continued.

A.—PRODUCTS OF AGRICULTURE—Continued.

PORTS.	CORN.								
	Total movement.			Receipts.			Shipments.		
	Amount in tons.	Per cent of total corn traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total corn traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total corn traffic.	Per cent of total port traffic.
Total.....	3,513,515	100.00	6.86	1,583,901	100.00	6.11	1,929,614	100.00	7.64
Chicago (a).....	1,769,621	50.37	22.17	1,319,560	83.31	32.61	1,769,621	91.71	60.73
Buffalo.....	1,319,560	37.56	19.60						
Escanaba.....									
Cleveland.....	1,010	0.03	0.03	434	0.03	0.02	576	0.03	0.07
Ashtabula.....									
Ashland.....									
Milwaukee.....	1,434	0.04	0.08				1,434	0.07	0.41
Marquette.....	8			8					
Toledo.....	73,952	2.11	5.14				73,952	3.83	7.95
Erie.....	98,623	2.81	7.75	98,623	6.23	12.76			
Superior.....	5,211	0.15	0.44				5,211	0.27	1.72
Duluth.....	49,901	1.42	4.48				49,901	2.59	11.58
Tonawanda.....									
Muskegon.....	2,608	0.07	0.26	2,608	0.16	1.72			
Fairport.....									
Two Harbors.....									
Detroit.....	31,778	0.90	4.16	4,242	0.27	0.69	27,536	1.43	18.51
Oswego.....	16,434	0.47	2.38	16,434	1.04	4.08			
Ogdensburg.....	131,907	3.75	19.90	131,907	8.33	28.06			
Manistee.....	217	0.01	0.03	217	0.01	0.77			
Ludington.....	163		0.03	163	0.01	0.06			
Lorain.....									
Sandusky.....									
Bay city.....									
Oscoda.....									
Alpena.....	168		0.04	168	0.01	1.40			
Charlotte.....									
Marinette.....									
Gladstone.....									
Houghton.....									
Menominee.....									
All other ports.....	10,920	0.31	0.27	9,537	0.60	0.60	1,383	0.07	0.06

PORTS.	OTHER GRAINS.								
	Total movement.			Receipts.			Shipments.		
	Amount in tons.	Per cent of total other grain traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total other grain traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total other grain traffic.	Per cent of total port traffic.
Total.....	980,514	100.00	1.92	477,397	100.00	1.84	503,117	100.00	1.99
Chicago (a).....	457,095	46.62	5.73				457,095	90.85	15.69
Buffalo.....	316,987	32.33	4.71	316,987	66.40	7.83			
Escanaba.....									
Cleveland.....	685	0.07	0.02	685	0.14	0.02			
Ashtabula.....									
Ashland.....									
Milwaukee.....	28,847	2.94	1.49				28,847	5.73	8.21
Marquette.....									
Toledo.....	5,560	0.57	0.39				5,560	1.11	0.60
Erie.....	13,452	1.37	1.06	13,452	2.82	1.74			
Superior.....									
Duluth.....	1,304	0.13	0.12				1,304	0.26	0.30
Tonawanda.....									
Muskegon.....	1,840	0.19	0.18	1,840	0.39	1.22			
Fairport.....									
Two Harbors.....									
Detroit.....	2,850	0.29	0.37	940	0.20	0.15	1,910	0.38	1.28
Oswego.....	78,340	7.99	11.33	78,340	16.41	19.45			
Ogdensburg.....	29,581	3.02	4.46	29,581	6.20	6.29			
Manistee.....	1,193	0.12	0.19	1,193	0.25	4.25			
Ludington.....	965	0.10	0.15	965	0.20	0.35			
Lorain.....									
Sandusky.....									
Bay city.....									
Oscoda.....	64		0.01				64	0.01	0.01
Alpena.....	4,976	0.51	1.29	4,976	1.04	41.58			
Charlotte.....	5,406	0.55	1.47	5,406	1.13	29.51			
Marinette.....	16			16		0.38			
Gladstone.....									
Houghton.....									
Menominee.....									
All other ports.....	31,353	3.20	0.77	23,016	4.82	1.44	8,337	1.66	0.34

a Including South Chicago.

TRAFFIC OPERATIONS—Continued.

TABLE 8.—FREIGHT MOVEMENT IN GENERAL, BY PRINCIPAL PORTS—Continued.

A.—PRODUCTS OF AGRICULTURE—Continued.

PORTS.	MILL PRODUCTS.								
	Total movement.			Receipts.			Shipments.		
	Amount in tons.	Per cent of total mill product traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total mill product traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total mill product traffic.	Per cent of total port traffic.
Total.....	1,886,189	100.00	3.68	992,066	100.00	3.82	894,123	100.00	3.54
Chicago (a).....	229,998	12.19	2.88	1,860	0.19	0.03	228,138	25.52	7.83
Buffalo.....	666,651	35.35	9.91	666,651	67.20	16.48			
Escanaba.....	4,543	0.24	0.13	35	0.02	0.02	4,508	0.50	0.13
Cleveland.....	252	0.01		252	0.03	0.01			
Ashtabula.....									
Ashland.....									
Milwaukee.....	289,174	15.33	14.93				289,174	32.34	82.26
Marquette.....									
Toledo.....	63,657	3.38	4.43				63,657	7.12	6.84
Erie.....	147,507	7.82	11.60	147,507	14.87	19.08			
Superior.....	95,576	5.07	8.10				95,576	10.69	31.37
Duluth.....	103,134	5.47	9.26				103,134	11.54	23.94
Tonawanda.....									
Muskegon.....	33			33		0.02			
Fairport.....									
Two Harbors.....									
Detroit.....	999	0.05	0.13				999	0.11	0.67
Oswego.....									
Ogdensburg.....	46,770	2.48	7.05	46,770	4.72	9.95			
Manistee.....	3,078	0.16	0.49	3,078	0.31	10.95			
Ludington.....	60,160	3.19	9.58	60,160	6.06	21.78			
Lorain.....									
Sandusky.....									
Bay city.....									
Oscoda.....									
Alpena.....									
Charlotte.....									
Marinette.....									
Gladstone.....	70,854	3.76	24.64				70,854	7.92	45.64
Houghton.....									
Menominee.....									
All other ports.....	103,803	5.50	2.55	65,720	6.62	4.11	38,083	4.26	1.54

PORTS.	ALL OTHER FARM PRODUCTS.								
	Total movement.			Receipts.			Shipments.		
	Amount in tons.	Per cent of total other farm product traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total other farm product traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total other farm product traffic.	Per cent of total port traffic.
Total.....	181,276	100.00	0.35	69,212	100.00	0.27	112,064	100.00	0.44
Chicago (a).....	60,978	33.64	0.76	8,994	13.00	0.18	51,984	46.39	1.78
Buffalo.....	47,687	26.31	0.71	47,687	68.90	1.18			
Escanaba.....									
Cleveland.....	909	0.55	0.03	784	1.13	0.03	215	0.19	0.02
Ashtabula.....									
Ashland.....									
Milwaukee.....	136	0.08	0.01	120	0.17	0.01	16	0.01	
Marquette.....									
Toledo.....									
Erie.....	280	0.15	0.02	280	0.40	0.04			
Superior.....									
Duluth.....	818	0.45	0.07				818	0.73	0.19
Tonawanda.....									
Muskegon.....	154	0.08	0.02	154	0.22	0.10			
Fairport.....									
Two Harbors.....									
Detroit.....	3,629	2.00	0.48	147	0.21	0.02	3,482	3.11	2.34
Oswego.....	1,997	1.10	0.29	1,997	2.89	0.49			
Ogdensburg.....	7,140	3.94	1.08	2,016	2.91	0.43	5,124	4.57	2.66
Manistee.....	1,720	0.95	0.27	1,708	2.47	6.08	12	0.01	
Ludington.....									
Lorain.....									
Sandusky.....									
Bay city.....									
Oscoda.....	30	0.02	0.01				30	0.03	0.01
Alpena.....									
Charlotte.....									
Marinette.....									
Gladstone.....									
Houghton.....									
Menominee.....	80	0.04	0.03	80	0.12	1.08			
All other ports.....	55,628	30.69	1.36	5,245	7.58	0.33	50,383	44.96	2.03

a Including South Chicago.

TRAFFIC OPERATIONS—Continued.

TABLE 8.—FREIGHT MOVEMENT IN GENERAL, BY PRINCIPAL PORTS—Continued.

B.—PRODUCTS OF MINES AND QUARRIES.

PORTS.	AGGREGATE.								
	Total movement.			Receipts.			Shipments.		
	Amount in tons.	Per cent of total mine and quarry traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total mine and quarry traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total mine and quarry traffic.	Per cent of total port traffic.
Total.....	27,763,178	100.00	54.22	13,454,189	100.00	51.88	14,308,989	100.00	56.63
Chicago (a).....	2,209,284	7.96	27.67	2,209,276	16.42	43.58	2,181,969	15.25	81.80
Buffalo.....	2,568,085	9.25	38.16	386,066	2.87	9.54	3,364,099	23.51	98.06
Escanaba.....	3,558,620	12.82	98.13	194,521	1.44	99.47	859,252	6.01	97.22
Cleveland.....	2,951,439	10.63	81.50	2,092,187	15.55	76.42	489,585	3.42	100.00
Ashtabula.....	2,690,944	9.69	99.84	2,201,359	16.36	99.81	1,663,021	11.62	94.50
Ashland.....	1,867,712	6.73	83.11	204,691	1.52	42.00	1,541,495	10.77	98.34
Milwaukee.....	1,107,543	3.99	57.21	1,107,543	8.23	69.91	650,000	4.54	69.84
Marquette.....	1,680,091	6.05	98.20	138,596	1.03	96.69	410,403	2.87	82.25
Toledo.....	863,488	3.11	60.09	213,488	1.59	42.16	6,969	0.05	2.29
Erie.....	835,910	3.01	65.72	425,507	3.16	55.04	59,438	0.41	100.00
Superior.....	733,506	2.64	62.15	726,537	5.40	82.97	936,541	6.55	100.00
Duluth.....	538,916	1.94	48.38	538,916	4.00	78.89	6,602	0.05	4.44
Tonawanda.....	17,166	0.06	1.64	17,166	0.13	1.64	282,148	1.97	97.88
Muskegon.....	15,733	0.06	1.57	15,733	0.12	10.40	65,356	0.46	33.89
Fairport.....	990,124	3.57	99.17	930,686	6.92	99.11	105,001	0.73	17.45
Two Harbors.....	936,541	3.37	100.00				57,221	0.40	16.28
Detroit.....	287,277	1.03	37.57	280,675	2.09	45.58	273,671	1.91	99.93
Oswego.....	282,148	1.02	40.83	71,398	0.53	15.19	289,311	2.02	97.29
Ogdensburg.....	156,754	0.50	20.63	9,187	0.07	32.70	5,377	0.04	1.10
Manistee.....	114,188	0.41	18.13	4,583	0.03	1.66	322		0.07
Ludington.....	61,804	0.22	9.85	340,033	2.53	98.02	350,000	2.45	99.99
Lorain.....	613,704	2.22	98.86	214,877	1.60	70.44	42		0.01
Sandusky.....	504,188	1.82	83.70	62,046	0.46	93.66	82,880	0.58	53.39
Bay city.....	67,423	0.24	12.19				68,664	0.48	87.87
Oscoda.....	322		0.07	6,825	0.05	57.02	559,614	3.91	22.60
Alpena.....	6,825	0.02	1.76						
Charlotte.....	350,000	1.26	95.01	2,957	0.02	69.67			
Marinette.....	2,999	0.01	0.87						
Gladstone.....	208,940	0.75	72.65	126,060	0.94	95.24			
Houghton.....	235,187	0.85	82.18	166,523	1.24	80.04			
Menominee.....	1,346		0.49	1,346	0.01	18.12			
All other ports.....	1,325,021	4.77	32.53	765,407	5.69	47.92			

PORTS.	COAL AND COKE.								
	Total movement.			Receipts.			Shipments.		
	Amount in tons.	Per cent of total coal and coke traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total coal and coke traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total coal and coke traffic.	Per cent of total port traffic.
Total.....	11,268,270	100.00	22.01	5,162,471	100.00	19.91	6,105,799	100.00	24.17
Chicago (a).....	1,329,364	11.80	16.65	1,329,364	25.75	26.22	2,156,670	35.32	80.36
Buffalo.....	2,156,670	19.14	32.05	194,199	3.76	99.30	825,030	13.52	93.34
Escanaba.....	194,199	1.72	5.36	1,200	0.02	0.04	489,585	8.02	100.00
Cleveland.....	826,230	7.33	22.82						
Ashtabula.....	489,585	4.35	18.17	201,241	3.90	41.29			
Ashland.....	201,241	1.79	8.96	907,743	17.58	57.30			
Milwaukee.....	907,743	8.06	46.89	126,421	2.45	88.19			
Marquette.....	126,421	1.12	7.39	93,369	1.81	18.44			
Toledo.....	743,369	6.60	51.73				650,000	10.65	69.84
Erie.....	410,403	3.64	32.27	720,000	13.95	82.22	410,403	6.72	82.25
Superior.....	720,000	6.39	61.00	485,000	9.39	70.99			
Duluth.....	485,000	4.30	43.54						
Tonawanda.....				3,620	0.07	2.39			
Muskegon.....	3,620	0.03	0.36						
Fairport.....	59,438	0.53	5.95				59,438	0.97	100.00
Two Harbors.....									
Detroit.....	145,464	1.29	19.02	141,900	2.75	23.04	3,564	0.06	2.40
Oswego.....	282,098	2.50	40.82	66,231	1.28	14.09	282,098	4.62	97.86
Ogdensburg.....	131,587	1.17	19.85	9,187	0.18	32.70	65,356	1.07	33.89
Manistee.....	9,187	0.08	1.46	4,583	0.09	1.66			
Ludington.....	4,583	0.04	0.73				273,671	4.48	99.93
Lorain.....	273,671	2.43	44.08	1,561	0.03	0.51	275,385	4.51	92.60
Sandusky.....	276,946	2.46	45.98	51,000	0.99	76.98			
Bay city.....	51,000	0.45	9.22						
Oscoda.....				6,000	0.12	50.13			
Alpena.....	6,000	0.05	1.55						
Charlotte.....	350,000	3.11	95.01	2,870	0.06	67.62	350,000	5.73	99.99
Marinette.....	2,870	0.03	0.83						
Gladstone.....	122,000	1.08	42.42	122,000	2.36	92.17			
Houghton.....	169,336	1.50	59.17	144,261	2.79	69.34	25,075	0.41	32.09
Menominee.....	1,150	0.01	0.42	1,150	0.02	15.48			
All other ports.....	789,095	7.00	19.37	549,571	10.65	34.41	239,524	3.92	9.67

a Including South Chicago.

TRAFFIC OPERATIONS—Continued.

TABLE S.—FREIGHT MOVEMENT IN GENERAL, BY PRINCIPAL PORTS—Continued.

B.—PRODUCTS OF MINES AND QUARRIES—Continued.

PORTS.	IRON ORE.								
	Total movement.			Receipts.			Shipments.		
	Amount in tons.	Per cent of total iron ore traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total iron ore traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total iron ore traffic.	Per cent of total port traffic.
Total.....	15,303,180	100.00	29.89	7,626,073	100.00	29.40	7,677,107	100.00	30.38
Chicago (a).....	731,188	4.78	9.16	731,188	9.59	14.42			
Buffalo.....	333,827	2.18	4.96	333,827	4.38	8.25			
Escanaba.....	3,364,067	21.98	92.77				3,364,067	43.82	98.06
Cleveland.....	1,978,208	12.93	54.62	1,951,564	25.59	71.28	26,644	0.34	3.02
Ashtabula.....	2,199,109	14.37	81.59	2,199,109	28.84	99.71			
Ashland.....	1,663,021	10.87	74.00				1,663,021	21.66	94.50
Milwaukee.....	124,312	0.81	6.42	124,312	1.63	7.85			
Marquette.....	1,541,495	10.07	90.10				1,541,495	20.08	98.34
Toledo.....	97,476	0.64	6.78	97,476	1.28	19.25			
Erie.....	418,426	2.73	32.89	418,426	5.49	54.12			
Superior.....									
Duluth.....	10,691	0.07	0.96	10,691	0.14	1.57			
Tonawanda.....	17,166	0.11	1.64	17,166	0.22	1.64			
Muskegon.....									
Fairport.....	928,616	6.07	93.01	928,616	12.18	98.89			
Two Harbors.....	936,541	6.12	100.00				936,541	12.20	100.00
Detroit.....	119,403	0.78	15.62	117,247	1.54	19.04	2,156	0.03	1.45
Oswego.....									
Ogdensburg.....	2,587	0.02	0.39	2,587	0.03	0.55			
Manistee.....									
Ludington.....									
Lorain.....	335,162	2.19	54.00	335,162	4.39	96.62			
Sandusky.....	208,411	1.36	34.60	208,411	2.73	68.33			
Bay city.....									
Oscoda.....	28		0.01				28		0.01
Alpena.....									
Charlotte.....									
Marinette.....									
Gladstone.....	82,880	0.54	28.82				82,880	1.08	53.39
Houghton.....									
Menominee.....									
All other ports.....	210,566	1.38	5.17	150,291	1.97	9.41	60,275	0.79	2.43

PORTS.	STONE (ALL KINDS).								
	Total movement.			Receipts.			Shipments.		
	Amount in tons.	Per cent of total stone traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total stone traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total stone traffic.	Per cent of total port traffic.
Total.....	547,229	100.00	1.07	311,015	100.00	1.20	236,214	100.00	0.93
Chicago (a).....	18,176	3.32	0.23	18,176	5.85	0.36			
Buffalo.....	9,060	1.66	0.13	9,060	2.91	0.22			
Escanaba.....	288	0.05		288	0.09	0.15			
Cleveland.....	138,327	25.28	3.82	130,777	42.05	4.78	7,550	3.20	0.86
Ashtabula.....	2,250	0.41	0.08	2,250	0.72	0.10			
Ashland.....									
Milwaukee.....	3,262	0.60	0.17	3,262	1.05	0.20			
Marquette.....	11,951	2.18	0.70	11,951	3.84	8.34			
Toledo.....	12,822	2.34	0.89	12,822	4.12	2.53			
Erie.....									
Superior.....									
Duluth.....	35,374	6.46	3.17	35,374	11.37	5.18			
Tonawanda.....									
Muskegon.....	12,113	2.21	1.21	12,113	3.90	8.01			
Fairport.....	2,070	0.38	0.21	2,070	0.67	0.22			
Two Harbors.....									
Detroit.....									
Oswego.....									
Ogdensburg.....									
Manistee.....									
Ludington.....									
Lorain.....	4,800	0.88	0.77	4,800	1.54	1.38			
Sandusky.....	13,926	2.55	2.31				13,926	5.89	4.69
Bay city.....	11,000	2.01	1.99	11,000	3.54	16.61			
Oscoda.....									
Alpena.....	600	0.11	0.15	600	0.19	5.01			
Charlotte.....									
Marinette.....									
Gladstone.....									
Houghton.....	39,951	7.30	13.96	22,262	7.16	10.70	17,689	7.49	22.64
Menominee.....									
All other ports.....	231,259	42.26	5.68	34,210	11.00	2.14	197,049	83.42	7.96

a Including South Chicago.

STATISTICS OF TRANSPORTATION.

TRAFFIC OPERATIONS—Continued.

TABLE 8.—FREIGHT MOVEMENT IN GENERAL, BY PRINCIPAL PORTS—Continued.

B.—PRODUCTS OF MINES AND QUARRIES—Continued.

PORTS.	SALT.								
	Total movement.			Receipts.			Shipments.		
	Amount in tons.	Per cent of total salt traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total salt traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total salt traffic.	Per cent of total port traffic.
Total.....	549,350	100.00	1.07	296,513	100.00	1.14	252,837	100.00	1.00
Chicago (a).....	128,956	23.47	1.61	128,948	43.49	2.55	8		
Buffalo.....	25,299	4.61	0.38				25,299	10.01	0.94
Escanaba.....	80	0.01		34	0.01	0.02	32	0.01	
Cleveland.....	8,674	1.58	0.24	8,646	2.92	0.32	28	0.01	
Ashtabula.....									
Ashland.....	3,450	0.63	0.15	3,450	1.16	0.71			
Milwaukee.....	71,944	13.10	3.72	71,944	24.26	4.54			
Marquette.....	224	0.04	0.01	224	0.08	0.16			
Toledo.....	9,729	1.77	0.68	9,729	3.28	1.92			
Erie.....									
Superior.....	6,537	1.19	0.56	6,537	2.20	0.75			
Duluth.....	7,851	1.43	0.71	7,851	2.65	1.15			
Tonawanda.....									
Muskegon.....									
Fairport.....									
Two Harbors.....									
Detroit.....	22,410	4.08	2.93	21,528	7.26	3.50	882	0.35	0.59
Oswego.....	50	0.01	0.01				50	0.02	0.02
Ogdensburg.....									
Manistee.....	105,001	19.11	16.67				105,001	41.53	17.45
Ludington.....	57,221	10.42	9.12				57,221	22.63	16.28
Lorain.....	71	0.01	0.01	71	0.02	0.02			
Sandusky.....	4,905	0.89	0.81	4,905	1.65	1.60			
Bay city.....	5,377	0.98	0.97				5,377	2.13	1.10
Oscoda.....	294	0.05	0.06				294	0.11	0.06
Alpena.....									
Charlotte.....									
Marinette.....	129	0.02	0.04	87	0.03	2.05	42	0.02	0.01
Gladstone.....	4,060	0.74	1.41	4,060	1.37	3.07			
Houghton.....									
Menominee.....	196	0.04	0.07	196	0.07	2.64			
All other ports.....	86,906	15.82	2.13	28,303	9.55	1.77	58,603	23.18	2.37

PORTS.	OTHER PRODUCTS OF MINES AND QUARRIES.								
	Total movement.			Receipts.			Shipments.		
	Amount in tons.	Per cent of total other product traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total other product traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total other product traffic.	Per cent of total port traffic.
Total.....	95,149	100.00	0.18	58,117	100.00	0.23	37,032	100.00	0.15
Chicago (a).....	1,600	1.68	0.02	1,600	2.75	0.03			
Buffalo.....	43,179	45.38	0.64	43,179	74.30	1.07			
Escanaba.....									
Cleveland.....									
Ashtabula.....									
Ashland.....									
Milwaukee.....	282	0.30	0.01	282	0.48	0.02			
Marquette.....									
Toledo.....	92	0.10	0.01	92	0.16	0.02			
Erie.....	7,081	7.44	0.56	7,081	12.18	0.92			
Superior.....	6,969	7.32	0.59				6,969	18.82	2.29
Duluth.....									
Tonawanda.....									
Muskegon.....									
Fairport.....									
Two Harbors.....									
Detroit.....									
Oswego.....									
Ogdensburg.....	2,580	2.71	0.39	2,580	4.44	0.55			
Manistee.....									
Ludington.....									
Lorain.....									
Sandusky.....									
Bay city.....	46	0.05	0.01	46	0.08	0.07			
Oscoda.....									
Alpena.....	225	0.24	0.06	225	0.39	1.88			
Charlotte.....									
Marinette.....									
Gladstone.....									
Houghton.....	25,900	27.22	9.05				25,900	69.94	33.14
Menominee.....									
All other ports.....	7,195	7.56	0.18	3,032	5.22	0.19	4,163	11.24	0.17

a Including South Chicago.

TRAFFIC OPERATIONS—Continued.

TABLE 8.—FREIGHT MOVEMENT IN GENERAL, BY PRINCIPAL PORTS—Continued.

C.—OTHER PRODUCTS.

PORTS.	AGGREGATE.								
	Total movement.			Receipts.			Shipments.		
	Amount in tons.	Per cent of total other product traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total other product traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total other product traffic.	Per cent of total port traffic.
Total.....	14,990,122	100.00	29.28	8,440,205	100.00	32.54	6,549,917	100.00	25.92
Chicago (a)	2,944,859	19.65	36.88	2,849,843	33.77	56.21	95,016	1.45	3.26
Buffalo.....	1,029,669	6.87	15.30	527,645	6.25	13.04	502,024	7.67	18.70
Escanaba.....	63,227	0.42	1.74	1,002	0.01	0.51	62,225	0.95	1.81
Cleveland.....	644,691	4.30	17.80	620,872	7.36	22.68	23,819	0.36	2.69
Ashtabula.....	4,236	0.03	0.16	4,236	0.05	0.19			
Ashland.....	379,530	2.53	16.89	282,687	3.35	58.00	96,863	1.48	5.50
Milwaukee.....	479,483	3.20	24.77	476,591	5.65	30.08	2,892	0.04	0.82
Marquette.....	30,786	0.20	1.80	4,742	0.06	3.31	26,044	0.40	1.66
Toledo.....	297,971	1.99	20.74	292,863	3.47	57.84	5,108	0.08	0.55
Erie.....	142,437	0.95	11.20	53,882	0.64	6.97	88,555	1.35	17.75
Superior.....	154,381	1.03	13.08	149,155	1.77	17.03	5,226	0.08	1.71
Duluth.....	212,243	1.42	19.05	144,246	1.71	21.11	67,997	1.04	15.78
Tonawanda.....	1,029,729	6.87	98.36	1,029,729	12.20	98.36			
Muskegon.....	981,683	6.55	97.90	130,243	1.54	86.08	851,440	13.00	100.00
Fairport.....	8,335	0.05	0.83	8,335	0.10	0.89			
Two Harbors.....									
Detroit.....	355,444	2.37	46.49	327,927	3.89	53.26	27,517	0.42	18.49
Oswego.....	292,902	1.95	42.38	286,779	3.40	71.19	6,123	0.09	2.12
Ogdensburg.....	283,694	1.89	42.80	161,314	1.91	34.32	122,380	1.87	63.45
Manistee.....	509,514	3.40	80.89	12,713	0.15	45.25	496,801	7.59	82.55
Ludington.....	504,535	3.37	80.39	210,358	2.49	76.15	294,177	4.49	83.72
Lorain.....	7,069	0.05	1.14	6,866	0.08	1.98	203		0.07
Sandusky.....	90,152	0.60	14.96	90,152	1.07	29.56			
Bay city.....	485,796	3.24	87.81	4,200	0.05	6.34	481,596	7.35	98.90
Oscoda.....	489,997	3.27	99.91				489,997	7.48	99.91
Alpena.....	374,899	2.50	96.91				374,899	5.72	100.00
Charlotte.....	12,955	0.09	3.52	12,912	0.15	70.49	43		0.01
Marinette.....	343,231	2.29	99.13	1,271	0.01	29.95	341,960	5.22	99.99
Gladstone.....	6,296	0.04	2.19	6,296	0.07	4.76			
Houghton.....	51,004	0.34	17.82	41,524	0.49	19.96	9,480	0.15	12.13
Menominee.....	271,103	1.81	99.48	6,000	0.07	80.80	265,103	4.05	100.00
All other ports.....	2,508,271	16.73	61.58	695,842	8.24	43.57	1,812,429	27.67	73.20

PORTS.	ANIMAL PRODUCTS.								
	Total movement.			Receipts.			Shipments.		
	Amount in tons.	Per cent of total animal product traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total animal product traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total animal product traffic.	Per cent of total port traffic.
Total.....	125,581	100.00	0.25	64,728	100.00	0.25	60,853	100.00	0.24
Chicago (a)	56,131	44.70	0.70	146	0.22		55,985	92.00	1.92
Buffalo.....	59,820	47.63	0.89	59,820	92.42	1.48	34	0.06	
Escanaba.....	34	0.03							
Cleveland.....									
Ashtabula.....									
Ashland.....									
Milwaukee.....	2,366	1.88	0.12	72	0.11		2,294	3.77	0.65
Marquette.....									
Toledo.....									
Erie.....									
Superior.....	1,321	1.05	0.11				1,321	2.17	0.43
Duluth.....									
Tonawanda.....									
Muskegon.....	963	0.77	0.10	963	1.49	0.64			
Fairport.....									
Two Harbors.....									
Detroit.....									
Oswego.....									
Ogdensburg.....	426	0.34	0.07	426	0.66	0.09			
Manistee.....	427	0.34	0.07	419	0.65	1.49	8	0.01	
Ludington.....									
Lorain.....									
Sandusky.....									
Bay city.....									
Oscoda.....									
Alpena.....									
Charlotte.....									
Marinette.....									
Gladstone.....									
Houghton.....									
Menominee.....									
All other ports.....	4,093	3.26	0.10	2,882	4.45	0.18	1,211	1.99	0.05

a Including South Chicago.

TRAFFIC OPERATIONS—Continued.

TABLE 8.—FREIGHT MOVEMENT IN GENERAL, BY PRINCIPAL PORTS—Continued.

C.—OTHER PRODUCTS—Continued.

PORTS.	LUMBER.								
	Total movement.			Receipts.			Shipments.		
	Amount in tons.	Per cent of total lumber traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total lumber traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total lumber traffic.	Per cent of total port traffic.
Total.....	12,205,655	100.00	23.84	6,857,257	100.00	26.44	5,348,398	100.00	21.17
Chicago (a)	2,590,110	21.22	32.44	2,588,004	37.74	51.05	2,106	0.04	0.07
Buffalo	403,951	3.31	6.00	403,951	5.89	9.98	54,041	1.01	1.57
Escanaba	54,041	0.44	1.49	565,626	8.25	20.66	1,092	0.02	0.12
Cleveland	566,718	4.64	15.65	4,236	0.06	0.19	80,119	1.50	4.55
Ashtabula	4,236	0.03	0.16	412,479	6.02	26.04	16,004	0.30	1.02
Ashland	80,119	0.66	3.57	175	0.12	0.12	5,108	0.10	0.55
Milwaukee	412,479	3.38	21.31	282,399	4.12	55.77	3,905	0.07	1.23
Marquette	16,179	0.13	0.95	17,850	0.26	2.31	13,110	0.25	3.04
Toledo	287,507	2.36	20.01	1,029,729	15.02	98.36	846,615	15.83	99.43
Erie	17,850	0.15	1.40	119,539	1.74	79.00	477,785	8.93	79.39
Superior	3,905	0.03	0.33	878	0.01	0.09	258,520	4.83	73.57
Duluth	13,110	0.11	1.18	314,995	4.59	51.16	10,261	0.19	6.89
Tonawanda	1,029,729	8.44	98.36	283,058	4.13	70.27	1,500	0.03	0.78
Muskegon	966,145	7.92	96.35	135,273	1.97	28.78	477,785	8.93	79.39
Fairport	878	0.01	0.09	8,866	0.10	1.98	258,520	4.83	73.57
Two Harbors	325,256	2.66	42.54	87,040	1.27	28.54	481,596	9.00	98.90
Detroit	283,058	2.32	40.96	4,200	0.06	6.34	489,962	9.16	99.91
Oswego	136,773	1.12	20.63	373,204	5.45	69.55	373,204	6.98	99.55
Ogdensburg	477,785	3.91	75.85	12,912	0.19	70.49	341,445	6.38	99.84
Manistee	258,520	2.12	41.19	278	0.01	6.55	9,480	0.18	12.13
Ludington	6,866	0.06	1.11	1,224	0.02	0.59	265,103	4.96	100.00
Lorain	87,040	0.71	14.45	586,554	8.55	36.73	1,617,442	30.24	65.32
Sandusky	485,796	3.98	87.81						
Bay city	489,962	4.01	99.90						
Oscoda	373,204	3.06	96.47						
Alpena	12,912	0.10	3.51						
Charlotte	341,723	2.80	98.70						
Marinette									
Gladstone	10,704	0.09	3.74						
Houghton	265,103	2.17	97.28						
Menominee	2,208,996	18.06	54.11						
All other ports									

PORTS.	MANUFACTURES, MISCELLANEOUS MERCHANDISE, AND OTHER COMMODITIES.								
	Total movement.			Receipts.			Shipments.		
	Amount in tons.	Per cent of total manufactures, etc., traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total manufactures, etc., traffic.	Per cent of total port traffic.	Amount in tons.	Per cent of total manufactures, etc., traffic.	Per cent of total port traffic.
Total.....	2,658,886	100.00	5.19	1,518,220	100.00	5.85	1,140,666	100.00	4.51
Chicago (a)	298,618	11.23	3.74	261,693	17.24	5.16	36,925	3.24	1.27
Buffalo	565,898	21.28	8.41	63,874	4.21	1.58	502,024	44.01	18.70
Escanaba	9,152	0.34	0.25	1,002	0.06	0.51	8,150	0.71	0.24
Cleveland	77,973	2.93	2.15	55,246	3.64	2.02	22,727	1.99	2.57
Ashtabula	299,411	11.26	13.32	282,667	18.62	58.00	16,744	1.47	0.95
Ashland	64,638	2.43	3.34	64,040	4.22	4.04	598	0.05	0.17
Milwaukee	14,607	0.55	0.85	4,567	0.30	3.19	10,040	0.88	0.64
Marquette	10,464	0.39	0.73	10,464	0.69	2.07	88,555	7.76	17.75
Toledo	124,587	4.69	9.80	36,032	2.37	4.66	54,887	4.81	12.74
Erie	149,155	5.61	12.64	149,155	9.82	17.03	4,825	0.42	0.57
Superior	199,133	7.49	17.87	144,246	9.50	21.11			
Duluth	14,575	0.55	1.45	9,750	0.64	6.44			
Tonawanda	7,457	0.28	0.74	7,457	0.49	0.80			
Muskegon									
Fairport									
Two Harbors	30,188	1.14	3.95	12,932	0.85	2.10	17,256	1.51	11.60
Detroit	9,844	0.37	1.42	3,721	0.25	0.92	6,123	0.54	2.12
Oswego	146,495	5.51	22.10	25,615	1.69	5.45	120,880	10.60	62.67
Ogdensburg	31,302	1.18	4.97	12,294	0.81	43.76	19,008	1.67	3.16
Manistee	246,015	9.25	39.20	210,358	13.86	76.15	35,657	3.13	10.15
Ludington	203	0.01	0.03	3,112	0.20	1.02	203	0.02	0.07
Lorain	3,112	0.12	0.51						
Sandusky									
Bay city									
Oscoda	35		0.01				35		
Alpena	1,695	0.06	0.44				1,695	0.15	0.45
Charlotte	43		0.01				43		0.01
Marinette	1,508	0.06	0.43	993	0.07	23.40	515	0.05	0.15
Gladstone	6,296	0.24	2.19	6,296	0.41	4.76			
Houghton	40,300	1.52	14.08	40,300	2.65	19.37			
Houghton	6,000	0.22	2.20	6,000	0.40	80.80			
Menominee	300,182	11.29	7.37	106,406	7.01	6.66	193,776	16.99	7.83
All other ports									

a Including South Chicago.

TRAFFIC OPERATIONS—Continued.

TABLE 9.—FREIGHT MOVEMENT IN GENERAL SUMMARIZED—RECEIPTS, SHIPMENTS AND TOTAL MOVEMENT OF THE LAKE FREIGHT, UNCLASSIFIED AS TO COMMODITIES, AND ALLOTTED TO ALL THE TRADING POINTS OF THE GREAT LAKES AND ST. LAWRENCE RIVER.

PORTS.	Total tonnage.	Receipts.	Shipments.	PORTS.	Total tonnage.	Receipts.	Shipments.
Total	51,203,106	25,936,132	25,266,974	Charlevoix, Michigan	62,824	8,915	53,909
Chicago (a), Illinois	7,984,038	5,069,973	2,914,065	Marine city, Michigan	61,001	46,575	15,426
Buffalo, New York	6,730,137	4,046,144	2,683,993	Traverse city, Michigan	60,766	6,566	54,200
Escanaba, Michigan	3,626,390	195,558	3,430,832	Baraga, Michigan	59,278		59,278
Cleveland, Ohio	3,621,570	2,737,708	883,862	Pequaming, Michigan	54,193		54,193
Ashtabula, Ohio	2,695,180	2,205,595	489,585	Fruitport, Michigan	54,126	47,854	6,272
Ashland, Wisconsin	2,247,242	487,358	1,759,884	Morristown, New York	48,369	7,178	41,191
Milwaukee, Wisconsin	1,935,808	1,584,254	351,554	St. Clair, Michigan	41,553	14,030	27,523
Marquette, Michigan	1,710,885	143,346	1,567,539	Kenosha, Wisconsin	41,532	35,808	5,724
Toledo, Ohio	1,436,991	506,351	930,640	Ontonagon, Michigan	40,700		40,700
Erie, Pennsylvania	1,271,988	773,030	498,958	Benton Harbor, Michigan	37,573	34,614	2,959
Superior, Wisconsin	1,180,297	875,692	304,605	Fayette, Michigan	37,389	23,557	13,832
Duluth, Minnesota	1,114,048	683,162	430,886	Pentwater, Michigan	33,111	469	32,642
Tonawanda, New York	1,046,895	1,046,895		Kewaunee, Wisconsin	32,627	9,273	23,354
Muskegon, Michigan	1,002,743	151,303	851,440	Port Washington, Wisconsin	32,304	21,197	11,107
Fairport, Ohio	998,459	939,021	59,438	Bay Mills, Michigan	32,037	1,389	30,648
Two Harbors, Minnesota	936,541		936,541	Sodus Point, New York	24,846	11,911	12,935
Detroit, Michigan	764,553	615,750	148,803	Cape Vincent, New York	22,819	22,398	421
Oswego, New York	691,118	402,847	288,271	Rogers city, Michigan	22,504	491	22,013
Ogdensburg, New York	662,904	470,044	192,860	Black River, Michigan	22,293	2,043	20,250
Manistee, Michigan	629,910	28,096	601,814	Algonac, Michigan	17,586	9,654	7,932
Ludington, Michigan	627,627	276,229	351,398	Dunkirk, New York	17,146	17,146	
Lorain, Ohio	620,773	346,899	273,874	Marysville, Michigan	13,466		13,466
Sandusky, Ohio	602,403	305,029	297,374	Sand Beach, Michigan	11,867	10,646	1,221
Bay city, Michigan	558,219	66,246	486,973	Waukegan, Illinois	10,959	10,959	
Oscoda, Michigan	490,413		490,413	South Haven, Michigan	10,727	2,234	8,493
Alpena, Michigan	386,868	11,969	374,899	Leland, Michigan	10,325		10,325
Charlot, New York	368,361	18,318	350,043	Clayton, New York	6,828	6,519	309
Marinette, Wisconsin	346,246	4,244	342,002	Sacketts Harbor, New York	6,508	6,401	107
Gladstone, Michigan	287,590	132,356	155,234	Sebawaing, Michigan	6,204	835	5,369
Houghton, Michigan	286,191	208,047	78,144	Alexandria Bay, New York	6,104	5,951	153
Menominee, Michigan	272,529	7,426	265,103	Two Rivers, Michigan	5,863	5,693	170
East Saginaw, Michigan	248,538	48,686	199,852	Petoskey, Michigan	5,631	1,701	3,930
Kelleys Island, Ohio	232,153	19,971	212,182	Glen Arbor, Michigan	4,741		4,741
East Tawas, Michigan	230,516	1,172	229,344	Grindstone Island, New York	4,608	158	4,450
Cheboygan, Michigan	218,940	24,523	194,417	Port Sanilac, Michigan	4,501	590	3,911
Washburn, Wisconsin	188,393	55,092	133,301	De Pere, Wisconsin	4,434	1,181	3,253
Port Huron, Michigan	170,073	152,073	18,000	Cross Village, Michigan	2,670	11	2,659
Grand Haven, Michigan	169,546	101,150	68,396	Dexter, New York	2,169	2,169	
Racine, Wisconsin	160,537	159,312	1,225	Henderson, New York	1,968	1,537	431
Green Bay, Wisconsin	156,810	101,369	55,441	Oconto, Wisconsin	1,842	842	1,500
Michigan city, Indiana	148,029	147,897	132	Forestville, Michigan	1,817	1,005	812
Manistique, Michigan	144,011	3,690	140,321	Massena, New York	1,702	1,514	188
Fair Haven, New York	134,799	15,482	119,317	Wilson, New York	1,593	1,479	114
Sheboygan, Wisconsin	124,387	115,995	8,392	Pultneyville, New York	815	815	
Manitowoc, Wisconsin	113,377	88,354	25,023	Oak Orchard, New York	650	650	
St. Ignace, Michigan	107,895	24,068	83,827	Sandy Creek, New York	622	622	
St. Joseph, Michigan	85,017	60,516	24,501	Waddington, New York	575	523	52
Ford River, Michigan	82,080	512	81,568	Chaumont, New York	270	235	35
Peshigo, Wisconsin	80,683		80,683	Olcott, New York	215	161	53
Sault Ste. Marie, Michigan	76,125	37,063	39,062	Millins Bay, New York	119	119	
Montague, Michigan	72,348	1,264	71,084	Thousand Island Park, New York	115	115	
Elk Rapids, Michigan	72,108	41,020	31,088	Chippewa Bay, New York	84	30	54
Huron, Ohio	70,180	13,694	56,486	Youngstown, New York	75	75	

a Including South Chicago.

TABLE 10.—FREIGHT RECEIPTS BY EXTENDED LIST OF COMMODITIES—RECEIPTS AT ALL THE LAKE AND RIVER
THE 4 COMPREHENSIVE CLASSES

PORTS.		Total.	PRODUCTS OF AGRICULTURE.								PRODUCTS OF MINES AND QUARRIES.		
			Wheat.	Corn.	Other grain.	Mill products.	Fruit.	Hay.	Pota- toes.	Other.	Coal and coke.	Iron ore.	Other ore.
1	Total	25,936,132	919,162	1,583,901	477,397	992,066	800	7,972	1,674	58,766	5,162,471	7,626,073	42,120
2	Lake Superior	2,491,149		22	464	493	176	233	367	131	1,754,675	10,691	
3	Ashland, Wisconsin	487,358									201,241		
4	Baraga, Michigan												
5	Bay Mills, Michigan	1,389		14	160						1,200		
6	Duluth, Minnesota	683,162									485,000	10,691	
7	Houghton, Michigan	208,047									144,261		
8	Marquette, Michigan	143,346		8							126,421		
9	Ontonagon, Michigan												
10	Pequaming, Michigan												
11	St. Marys Falls, Michigan	37,063			304	493	176	233	367	131	24,938		
12	Superior, Wisconsin	875,692									720,000		
13	Two Harbors, Minnesota												
14	Washburn, Wisconsin	55,092									51,614		
15	Lakes Huron and St. Clair	1,029,356	29,246	10,688	16,275	11,963	147	234			362,747	117,639	
16	Algonac, Michigan	9,654									7,193		
17	Alpena, Michigan	11,969		168	4,976						6,000		
18	Bay city, Michigan	66,246									51,000		
19	Black River, Michigan	2,043		140	1,200	196					500		
20	Cheboygan, Michigan	24,523	1,927	474	823						11,000		
21	Detroit, Michigan	615,750	1,819	4,242	940		147				141,900	117,247	
22	East Saginaw, Michigan	48,686									46,316		
23	East Tawas, Michigan	1,172									392	392	
24	Forestville, Michigan	1,005									25		
25	Marine city, Michigan	45,575				2					41,653		
26	Marysville, Michigan												
27	Oscoda, Michigan												
28	Port Huron, Michigan	152,073	24,000	5,600	8,000	11,760					24,000		
29	Port Sanilac, Michigan	590									125		
30	Rogers city, Michigan	491		64	336	5					37		
31	St. Clair, Michigan	14,030									8,000		
32	St. Ignace, Michigan	24,068					234				19,257		
33	Sand Beach, Michigan	10,646	1,500								5,269		
34	Sebawaing, Michigan	835									80		
35	Lake Michigan	8,480,892	4,553	6,209	10,625	118,423	309	5,666	131	6,877	2,865,021	1,004,630	
36	Benton Harbor, Michigan	34,614											
37	Charlevoix, Michigan	8,915	339	614	222	136	50				1,337	4,775	
38	Chicago and South Chicago, Illi- nois	5,069,973				1,860		3,400	36	5,558	1,329,364	731,188	
39	Cross Village, Michigan	11		3	8								
40	De Pere, Wisconsin	1,181									1,095		
41	Elk Rapids, Michigan	41,020	60	17	69						662	36,950	
42	Escanaba, Michigan	195,558				35					194,199		
43	Fayette, Michigan	23,557		20	48						700	22,621	
44	Ford river, Michigan	512		112	400								
45	Fruitport, Michigan	47,854										43,904	
46	Gladstone, Michigan	132,356									122,000		
47	Glen Arbor, Michigan												
48	Grand Haven, Michigan	101,150	300	53	286	52,413	49	407		1,276		39,200	
49	Green Bay, Wisconsin	101,369	96		68	26	53				70,374		
50	Kenosha, Wisconsin	35,808					13				9,274		
51	Kewanee, Wisconsin	9,273		280			64				250		
52	Leland, Michigan												
53	Ludington, Michigan	276,229		153	965	60,160							
54	Manistee, Michigan	28,096		217	1,193	3,078		1,708			4,583		
55	Manistique, Michigan	3,690		644	560						9,187		
56	Manitowoc, Wisconsin	88,354									1,600		
57	Marinette, Wisconsin	4,244			16						75,000		
58	Menominee, Michigan	7,426									2,870		
59	Michigan city, Indiana	147,897					80				1,150		
60	Milwaukee, Wisconsin	1,584,254						15 80					
61	Montagne, Michigan	1,264	6	409	191	479					907,743	124,312	
62	Muskegon, Michigan	151,303	692	2,608	1,840	33					91		
63	Oconto, Wisconsin	342									3,620		
64	Pentwater, Michigan	469		181	181						300		
65	Peshigo Harbor, Wisconsin										107		
66	Petoskey, Michigan	1,701	90								15		
67	Port Washington, Wisconsin	21,197	1,500	252	3,610						3,500	1,680	
68	Racine, Wisconsin	159,312									67,000		
69	St. Joseph, Michigan	60,516				203					4,800		
70	Sheboygan, Wisconsin	115,995									50,000		
71	South Haven, Michigan	2,234		188	35								
72	Traverse city, Michigan	6,566	1,470	448	933						3,000		
73	Two Rivers, Michigan	5,693									1,200		
74	Waukegan, Illinois	10,959											

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PORTS, WITH TOTALS FOR THE LAKES AND ST. LAWRENCE RIVER, OF ALL THE COMMODITIES EMBRACED UNDER TREATED OF IN TABLE 7.

PRODUCTS OF MINES AND QUARRIES—continued.			OTHER PRODUCTS.				MANUFACTURES.								Miscellaneous merchandise and other commodities.	
Stone (all kinds).	Salt.	Other.	Animal products.	Live stock.	Lumber.	Ice.	Petroleum.	Sugar.	Iron, pig and bloom.	Other iron manufactures.	Liquors.	Cement, brick, and lime.	All other manufactures.			
311,015	296,513	15,997	63,513	1,215	6,857,257	18,912	28,120	100,434	162,248	300,939	9,650	58,256	16,750	822,911	1	
69,587	20,119		301	70	7,910		20,249	2,032	21,623	182,329	310	20,116		379,251	2	
	3,450									159,492		1,535		121,640	3	
	7											8			4	
35,374	7,851								21,489	15,702		11,745		95,310	5	
22,262					1,224							2,206		38,094	7	
11,951	224				175							450		4,117	8	
															9	
	73		301	70	6,511		509	158	134	119	310	399		1,837	11	
	6,537						19,740	1,874		7,016		3,698		116,827	12	
	1,977											75		1,426	13	
															14	
25,975	25,043	771			390,434		690		11,241	6,302		9,411		10,550	15	
					2,461										16	
600		225			4,200										17	
11,000	7	46													18	
	202				1,065		690		112			180		8,050	19	
	21,528				314,995				11,057	1,725		150			20	
					2,370										21	
					383				5						22	
	42				865				67			73			23	
	70				3,783										24	
															25	
14,375	420	500			51,918							9,000		2,500	26	
	70				387							8			27	
	49														28	
					6,030										29	
	2,655				1,222					4,577					30	
					755										31	
51,944	225,582	4,202	2,671	477	3,548,923		6,847	98,402	46,717	109,575	9,140	9,674	4,761	339,533	32	
															33	
1,020	210				28,700							810		4,894	34	
18,176	35	1,600	146		13		65				39	10		894	35	
	128,948				2,588,004			84,755	38,781	96,383	8,648			33,126	36	
	42				20									24	37	
	70				42							3,150			38	
288	34				150		720					282			39	
	14											4			40	
2,300														1,650	41	
	4,060									896				5,400	42	
2,248	65		1,473		1,435				504	381	75	69		906	43	
9,450	5,543	120		11	5,790		1,644	522	604	6,023	11	304	47	688	44	
					17,252		2			200				9,067	45	
	210	600			346		100			200	200	23		7,000	46	
															47	
				419						50	172			210,308	48	
	189									898		57		11,224	49	
														640	50	
	1,400	1,600	28		8,126		200			2,000		87		906	51	
	87				278									6,000	52	
	196														53	
1,362	8,483				134,842				3,195						54	
3,262	71,944	282	72		412,479		4,046	13,125	2,189	565		2,804	10	41,301	55	
															56	
12,113	52		952	36					1,438		1,969	825	4,704	814	57	
	42			11	119,530										58	
															59	
	210				505									875	60	
	420				10,235										61	
	140				92,152										62	
	700				53,839										63	
	1,400				61,295									3,300	64	
															65	
	140				1,871										66	
	490														67	
1,725	140				1,378		70					225		1,150	68	
	312				10,641							30			69	
															70	
															71	
															72	
															73	
															74	

TABLE 10.—FREIGHT RECEIPTS BY EXTENDED

	PORTS.	Total.	PRODUCTS OF AGRICULTURE.							PRODUCTS OF MINES AND QUAR- RIES.			
			Wheat.	Corn.	Other grain.	Mill products.	Fruit.	Hay.	Pota- toes.	Other.	Coal and coke.	Iron ore.	Other ore.
1	Lake Erie.....	12,957,483	837,821	1,418,617	331,124	814,410	140	446	.....	48,165	97,865	6,490,518	39,540
2	Ashtabula, Ohio.....	2,205,595	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,199,109	.....
3	Buffalo, New York.....	4,046,144	781,548	1,319,560	316,987	666,651	140	446	.....	47,101	.....	333,827	39,540
4	Cleveland, Ohio.....	2,737,708	22,494	434	685	252	.....	.....	.....	784	1,200	1,951,564	.....
5	Dunkirk, New York.....	17,146	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6	Erie, Pennsylvania.....	773,030	33,779	98,623	13,452	147,507	.....	.....	.....	280	.....	418,426	.....
7	Fairport, Ohio.....	939,021	.....	.....	.....	.....	.....	.....	.....	.....	.....	928,616	.....
8	Huron, Ohio.....	13,694	.....	.....	.....	.....	.....	.....	.....	.....	235	761	.....
9	Kelleys Island, Ohio.....	19,971	.....	.....	.....	.....	.....	.....	.....	.....	1,500	.....	.....
10	Lorain, Ohio.....	346,899	.....	.....	.....	.....	.....	.....	.....	.....	.....	335,162	.....
11	Sandusky, Ohio.....	305,029	.....	.....	.....	.....	.....	.....	.....	.....	1,561	208,411	.....
12	Toledo, Ohio.....	506,351	.....	.....	.....	.....	.....	.....	.....	.....	93,369	97,476	.....
13	Tonawanda, New York.....	1,046,895	.....	.....	.....	.....	.....	.....	.....	.....	.....	17,166	.....
14	Lake Ontario.....	485,220	20,483	16,438	89,178	7	5	351	510	3,274	7,218	.....	.....
15	Cape Vincent, New York.....	22,398	1,185	3	782	.....	.....	350	4	1,780	1,030	.....	.....
16	Charlotte, New York.....	18,318	.....	.....	5,406	.....	.....	.....	.....	.....	.....	.....	.....
17	Chaumont, New York.....	235	.....	.....	.....	.....	.....	.....	.....	.....	100	.....	.....
18	Dexter, New York.....	2,169	.....	.....	.....	.....	.....	.....	.....	.....	1,480	.....	.....
19	Henderson, New York.....	1,537	.....	.....	.....	.....	.....	.....	.....	.....	610	.....	.....
20	Millins Bay, New York.....	119	.....	.....	1	.....	.....	1	.....	2	110	.....	.....
21	Oak Orchard, New York.....	650	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
22	Olcott, New York.....	162	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
23	Oswego, New York.....	402,847	19,297	16,434	78,340	.....	.....	.....	506	1,491	.....	.....	.....
24	Pultneyville, New York.....	815	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
25	Sacketts Harbor, New York.....	6,401	1	1	.....	.....	5	.....	.....	.....	3,406	.....	.....
26	Sandy Creek, New York.....	622	.....	.....	.....	.....	.....	.....	.....	.....	482	.....	.....
27	Sodus Point, New York.....	11,911	.....	.....	4,649	.....	.....	.....	.....	.....	.....	.....	.....
28	Wilson, New York.....	1,479	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
29	Youngstown, New York.....	75	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
30	Fair Haven, New York.....	15,482	.....	.....	.....	7	.....	.....	.....	1	.....	.....	.....
31	St. Lawrence river.....	492,032	27,059	131,927	29,731	46,770	23	1,042	666	319	74,945	2,595	2,580
32	Alexandria Bay, New York.....	5,951	.....	.....	.....	.....	23	.....	6	1	2,933	.....	.....
33	Chippewa Bay, New York.....	30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
34	Clayton, New York.....	6,519	1	14	5	.....	.....	.....	.....	.....	3,549	.....	.....
35	Massena, New York.....	1,514	.....	.....	.....	.....	.....	.....	.....	.....	1,500	.....	.....
36	Grindstone Island, New York.....	158	.....	.....	1	.....	.....	2	.....	.....	122	.....	.....
37	Morristown, New York.....	7,178	.....	.....	144	.....	.....	.....	.....	.....	.....	.....	.....
38	Ogdensburg, New York.....	470,044	27,058	131,907	29,581	46,770		1,040	660	316	66,231	2,587	2,580
39	Thousand Island Park, New York.....	115								2	110		
40	Waddington, New York.....	523									500		

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LIST OF COMMODITIES, ETC.—Continued.

[illegible]

TABLE 11.—FREIGHT SHIPMENTS BY EXTENDED LIST OF COMMODITIES—SHIPMENTS FROM ALL THE LAKE AND UNDER THE 4 COMPREHENSIVE CLASSES

	PORTS.	Total.	PRODUCTS OF AGRICULTURE.								PRODUCTS OF MINES AND QUARRIES.		
			Wheat.	Corn.	Other grain.	Mill products.	Fruit.	Hay.	Pota- toes.	Other.	Coal and coke.	Iron ore.	Other ore.
1	Total	25,266,974	969,150	1,929,614	503,117	894,123	26,184	10,105	2,024	73,751	6,105,799	7,677,107	29,442
2	Lake Superior	5,434,781	399,355	55,112	1,382	205,227	10	65	59	834	26,075	4,141,057	29,442
3	Ashland, Wisconsin	1,759,884										1,663,021	
4	Baraga, Michigan	59,278											
5	Bay Mills, Michigan	30,648			48								
6	Duluth, Minnesota	430,886	207,732	49,901	1,304	103,134				818			
7	Houghton, Michigan	78,144									25,075		25,900
8	Marquette, Michigan	1,567,539										1,541,495	
9	Ontonagon, Michigan	40,700											200
10	Pequaming, Michigan	54,193											
11	St. Marys Falls, Michigan	39,062			30	122	10	65	59	16	1,000		
12	Superior, Wisconsin	304,605	191,623	5,211		95,576							3,342
13	Two Harbors, Minnesota	936,541										936,541	
14	Washburn, Wisconsin	133,301				6,395							
15	Lakes Huron and St. Clair	2,344,451	81,417	27,760	6,204	4,829	2,390	2,530	108	1,828	13,574	62,451	
16	Algonac, Michigan	7,932											
17	Alpena, Michigan	374,899											
18	Bay City, Michigan	486,973											
19	Black River, Michigan	20,250											
20	Cheboygan, Michigan	194,417							48				
21	Detroit, Michigan	148,803	80,757	27,536	1,910	999	1,865			1,617	3,564	2,156	
22	East Saginaw, Michigan	199,852									10		
23	East Tawas, Michigan	229,344											
24	Forestville, Michigan	812	60		597				30	125			
25	Marine city, Michigan	15,426											
26	Marysville, Michigan	13,466			40								
27	Oscoda, Michigan	490,413			64			30				28	
28	Port Huron, Michigan	18,000									10,000		
29	Port Sanilac, Michigan	3,911	600		1,636			1,500					
30	Rogers city, Michigan	22,013											
31	St. Clair, Michigan	27,523			32			1,000					
32	St. Ignace, Michigan	83,827							30			60,267	
33	Sand Beach, Michigan	1,221			1,221								
34	Sebawaing, Michigan	5,369		224	704	3,830	525			86			
35	Lake Michigan	10,090,366	347,466	1,772,109	489,971	620,410	23,258	7,056	1,857	65,297	257	3,446,947	
36	Benton Harbor, Michigan	2,959					2,959						
37	Charlevoix, Michigan	53,909					43						
38	Chicago (a), Illinois	2,914,065	312,203	1,769,621	457,095	228,138		927	109	49,822			
39	Cross Village, Michigan	2,659	9						1,235				
40	De Pere, Wisconsin	3,253	6	38	162	1,043			120	4			
41	Elk Rapids, Michigan	31,088											
42	Escanaba, Michigan	3,430,832				4,508						3,364,067	
43	Fayette, Michigan	13,832	27										
44	Ford River, Michigan	81,568											
45	Fruitport, Michigan	6,272											
46	Gladstone, Michigan	155,234	1,500			70,854						82,880	
47	Glen Arbor, Michigan	4,741											
48	Grand Haven, Michigan	68,396				21							
49	Green Bay, Wisconsin	55,441	1,650	29	1,784	21,474	1	7	17	7	12		
50	Kenosha, Wisconsin	5,724			3						5		
51	Kewaunee, Wisconsin	23,354	1,500		205			800	30	3,258			
52	Leland, Michigan	10,325											
53	Ludington, Michigan	351,398											
54	Manistee, Michigan	601,814						12					
55	Manistique, Michigan	140,321											
56	Manitowoc, Wisconsin	25,023	1,200	42	824	2,940		5,250	150	6,706			
57	Marinette, Wisconsin	342,002											
58	Menominee, Michigan	265,103											
59	Michigan city, Indiana	132			32			60					
60	Milwaukee, Wisconsin	351,554	29,191	1,434	28,847	289,174				16	40		
61	Montague, Michigan	71,084											
62	Muskegon, Michigan	851,440					57						
63	Oconto, Wisconsin	1,500											
64	Pewaukee, Michigan	32,642											
65	Peshigo Harbor, Wisconsin	80,683											
66	Petoskey, Michigan	3,930				297			45				
67	Port Washington, Wisconsin	11,107	180	238	269	600							
68	Racine, Wisconsin	1,225			80			350					
69	St. Joseph, Michigan	24,501				1,841	15,400			5,000			
70	Sheboygan, Wisconsin	8,392		707	640								
71	South Haven, Michigan	8,493					4,448		151	484			
72	Traverse, Michigan	54,200											
73	Two Rivers, Michigan	170				20							
74	Waukegan, Illinois												

(a) Including South Chicago.

RIVER PORTS, WITH TOTALS FOR THE LAKES AND ST. LAWRENCE RIVER, OF ALL THE COMMODITIES EMBRACED TREATED OF IN TABLE 7.

[illegible]

TABLE 11.—FREIGHT SHIPMENTS BY EXTENDED

	PORTS.	Total.	PRODUCTS OF AGRICULTURE.							PRODUCTS OF MINES AND QUARRIES.			
			Wheat.	Corn.	Other grain.	Mill products.	Fruit.	Hay.	Pota- toes.	Other.	Coal and coke.	Iron ore.	Other ore.
1	Lake Erie	6,386,392	140,912	74,528	5,560	63,657	250			215	5,196,182	26,644	
2	Ashtabula, Ohio	489,585									489,585		
3	Buffalo, New York	2,683,993									2,156,670		
4	Cleveland, Ohio	883,862		576						215	825,030	26,644	
5	Dunkirk, New York												
6	Erie, Pennsylvania	498,958									410,403		
7	Fairport, Ohio	59,438									59,438		
8	Huron, Ohio	56,486	486								56,000		
9	Kelleys Island, Ohio	212,182					250						
10	Lorain, Ohio	273,874									273,671		
11	Sandusky, Ohio	297,374	8,063								275,385		
12	Toledo, Ohio	930,640	132,363	73,952	5,560	63,657					650,000		
13	Tonawanda, New York												
14	Lake Ontario	771,727		1			276	454		69	764,355		
15	Cape Vincent, New York	421					176			9			
16	Charlotte, New York	350,043									350,000		
17	Chaumont, New York	35						35					
18	Dexter, New York												
19	Henderson, New York	431						419					
20	Millins Bay, New York												
21	Oak Orchard, New York												
22	Olcott, New York	53		1			47				5		
23	Oswego, New York	288,271									282,098		
24	Pultneyville, New York												
25	Sacketts Harbor, New York	107											
26	Sandy Creek, New York												
27	Sodus Point, New York	12,935									12,935		
28	Wilson, New York	114					53			60			
29	Youngstown, New York												
30	Fairhaven, New York	119,317									119,317		
31	St. Lawrence river	239,257		104						5,508	105,356	8	
32	Alexandria Bay, New York	153		104									
33	Chippewa Bay, New York	54								54			
34	Clayton, New York	309								90		8	
35	Massena, New York	188								188			
36	Grindstone Island, New York ..	4,450											
37	Morristown, New York	41,191									40,000		
38	Ogdensburg, New York	192,860								5,124	65,356		
39	Thousand Island Park, New York												
40	Waddington, New York	52								52			

LIST OF COMMODITIES, ETC.—Continued.

[illegible]

TOTAL MOVEMENT TO AND FROM ALL LAKE PORTS, WITH TOTALS FOR EACH LAKE AND ST. LAWRENCE RIVER, COMPREHENSIVE CLASSES TREATED OF IN TABLE 7.

PRODUCTS OF MINES AND QUARRIES—continued.			OTHER PRODUCTS.				MANUFACTURES.								Miscellaneous merchandise and other commodities.	
Stone (all kinds).	Salt.	Other.	Animal products.	Live stock.	Lumber.	Ice.	Petroleum.	Sugar.	Iron, pig and bloom.	Other iron manufactures.	Liquors.	Cement, brick, and lime.	All other manufactures.			
547, 229	549, 350	23, 587	123, 495	2, 086	12, 205, 655	18, 912	52, 582	103, 317	316, 224	320, 303	14, 236	181, 462	28, 735	1, 623, 115	1	
87, 276	20, 142	3, 627	1, 808	106	476, 067		20, 322	2, 048	48, 287	182, 333	324	20, 580		437, 140	2	
	3, 450				80, 119				16, 621	159, 492		1, 658		121, 640	3	
	7				59, 278										4	
35, 374	7, 851				30, 600							8		150, 197	5	
39, 951					13, 110				21, 489	15, 702		11, 745			6	
11, 951	224				10, 704							2, 206		38, 094	7	
					16, 179				10, 040			450		4, 117	8	
					40, 500										9	
					54, 183										10	
	96		487	106	42, 979		582	174	137	123	324	740		2, 433	11	
	6, 537	3, 627	1, 321		3, 905		19, 740	1, 874		7, 016		3, 698		116, 827	12	
	1, 977				124, 500							75		3, 832	13	
25, 975	78, 523	4, 674		175	2, 426, 485		690		32, 723	6, 479	54	19, 584		26, 415	14	
	7, 728				2, 665										15	
600		225			373, 204									1, 695	16	
11, 000	5, 377	46			485, 796										17	
	7				20, 250										18	
	202				189, 572		690		224			180		13, 800	19	
	22, 410				325, 256				28, 119	1, 871		198			20	
	12, 974	3, 903			202, 212				5						21	
	42				212, 850										22	
	9, 929				865				67			73			23	
					9, 350										24	
	284				13, 426										25	
14, 375	420	500			489, 962					31				4	26	
	70			175	51, 918							9, 000		10, 500	27	
	49				387										28	
	16, 366				22, 013										29	
	2, 655				6, 030							10, 125			30	
					18, 752				4, 308	4, 577	54			416	31	
					1, 222										32	
					755										33	
63, 410	399, 539	4, 262	61, 146	1, 137	6, 385, 159		6, 852	101, 269	147, 190	110, 024	11, 908	18, 572	16, 734	446, 984	34	
	210				28, 700							810			35	
1, 020	35				36, 895		65		9, 961		39	125		4, 894	36	
18, 176	128, 956	1, 600	56, 131		2, 590, 110			87, 621	45, 799	96, 768	11, 166			7, 059	37	
														45, 575	38	
	42			9	1, 650				271					880	39	
					20									1, 744	40	
	70				9, 633				21, 497			3, 150			41	
	66		34		54, 041		720		8, 092	58		282			42	
	14				150				13, 805			4			43	
2, 300					81, 568										44	
									6, 272					1, 650	45	
	4, 060									896				5, 400	46	
2, 248	415		1, 473		4, 741				31, 864	391	75				47	
9, 450	16, 846	120	2	421	35, 734		1, 649	523	8, 092	6, 029	81	69		3, 272	48	
5, 716					6, 954		2		2, 203	200		2, 947	87	13, 900	49	
					17, 252									9, 067	50	
	210	660	13	55	10, 359		100			200	200	2, 273		12, 170	51	
	57, 221				9, 225									1, 100	52	
	105, 001			427	258, 520					50	172			245, 965	53	
	189				477, 785					50				30, 188	54	
					140, 321					50		57		640	55	
	1, 400	1, 600	64		13, 751		200			2, 000		2, 250			56	
	129				341, 723							117		1, 391	57	
	196				265, 103									6, 000	58	
1, 362	8, 483				134, 842				3, 195						59	
3, 262	71, 944	282	2, 366		412, 479		4, 046	13, 125	2, 787	565		2, 804	10	41, 301	60	
	52				70, 917									110	61	
12, 113			952		966, 145				1, 438	1, 969		825	4, 704	5, 639	62	
	42				1, 500										63	
					32, 642										64	
					80, 683										65	
															66	
	210				2, 853				6			690		1, 425	67	
	420				20, 025										68	
	140		110	125	92, 152							20	200	360	69	
5, 750	700				53, 839						175	974		2, 760	70	
	1, 400				61, 295							920		3, 300	71	
															72	
	140		1	53	5, 183									44	73	
	490				54, 200							225			74	
1, 725	140				1, 528		70					30		1, 150	75	
	318				10, 641										76	

TABLE 12.—FREIGHT MOVEMENT OF COMBINED RECEIPTS AND

		PRODUCTS OF AGRICULTURE.								PRODUCTS OF MINES AND QUARIES.			
PORTS.		Total.	Wheat.	Corn.	Other grain.	Mill products.	Fruit.	Hay.	Pota- toes.	Other.	Coal and coke.	Iron ore.	Other ore.
1	Lake Erie	19,343,875	978,733	1,493,145	336,684	878,067	390	446		48,380	5,294,047	6,517,162	39,540
2	Ashtabula, Ohio	2,695,180									489,585	2,199,109	
3	Buffalo, New York	6,730,137	781,548	1,319,560	316,987	666,651	140	446		47,101	2,156,670	333,827	39,540
4	Cleveland, Ohio	3,621,570	22,494	1,010	685	252				999	826,230	1,978,208	
5	Dunkirk, New York	17,146											
6	Erie, Pennsylvania	1,271,988	33,779	98,623	13,452	147,507				280	410,403	418,426	
7	Fairport, Ohio	993,459									59,438	928,616	
8	Huron, Ohio	70,180	486								56,235	761	
9	Kelleys Island, Ohio	232,153					250				1,500		
10	Lorain, Ohio	620,773									273,671	335,162	
11	Sandusky, Ohio	602,403	8,063								276,946	208,411	
12	Toledo, Ohio	1,436,991	132,363	73,952	5,560	63,657					743,369	97,476	
13	Tonawanda, New York	1,046,895										17,166	
14	Lake Ontario	1,256,947	20,483	16,439	89,178	7	281	805	510	3,343	771,573		
15	Cape Vincent, New York	22,819	1,185	3	782		176	350	4	1,789	1,030		
16	Charlotte, New York	368,361			5,406						350,000		
17	Chaumont, New York	270						35			100		
18	Dexter, New York	2,169									1,480		
19	Henderson, New York	1,968						419			610		
20	Millins Bay, New York	119			1			1		2	110		
21	Oak Orchard, New York	650											
22	Olcott, New York	215		1			47				5		
23	Oswego, New York	691,118	19,297	16,434	78,340				506	1,491	282,098		
24	Pultneyville, New York	815											
25	Sacketts Harbor, New York	6,508	1	1			5				3,406		
26	Sandy creek, New York	622									482		
27	Sodus Point, New York	24,846			4,649						12,935		
28	Wilson, New York	1,593					53			60			
29	Youngstown, New York	75											
30	Fair Haven, New York	134,799				7				1	119,317		
31	St. Lawrence river	731,289	27,059	132,031	29,731	46,770	23	1,042	666	5,827	180,301	2,603	2,580
32	Alexandria Bay, New York	6,104		104			23		6	1	2,933		
33	Chippewa Bay, New York	84								54			
34	Clayton, New York	6,828	1	6	5					90	3,549	16	
35	Massena, New York	1,702		14						188	1,500		
36	Grindstone Island, New York ..	4,608			1			2			122		
37	Morristown, New York	48,369			144						40,000		
38	Ogdensburg, New York	662,904	27,058	131,907	29,581	46,770		1,040	660	5,440	131,587	2,587	2,580
39	Thousand Island Park, New York	115								2	110		
40	Waddington, New York	575								52	500		

SHIPMENTS BY EXTENDED LIST OF COMMODITIES, ETC.—Continued.

PRODUCTS OF MINES AND QUARRIES—continued.			OTHER PRODUCTS.				MANUFACTURES.							Miscellaneous merchandise and other commodities.	
Stone (all kinds).	Salt.	Other.	Animal products,	Live stock.	Lumber.	Ice.	Petroleum.	Sugar.	Iron, pig and bloom.	Other iron manufactures.	Liquors.	Cement, brick, and lime.	All other manufactures.		
364, 380	50, 988	10, 812	59, 820		2, 450, 780		334		88, 002	19, 422	1, 750	122, 520	11, 666	576, 807	1
2, 250 9, 060 138, 327	25, 299 8, 674	3, 639	59, 820		4, 236 403, 951 566, 718 17, 146		334		40, 768 47, 234	6, 981 12, 441		76, 460 6, 989	11, 666	429, 689 11, 309	2 3 4 5
2, 070	2, 310	7, 081			17, 850 878 10, 388 18, 471									124, 587 7, 457	6 7 8
181, 125											1, 750	28, 607		450	9
4, 800 13, 926 12, 822	71 4, 905 9, 729	92			6, 866 87, 040 287, 507 1, 029, 729							10, 464		203 3, 112	10 11 12 13
1, 738	129	212	0	592	320, 242	18, 912	142		22	30		188	312	11, 800	14
8		12	9	563	16, 014 12, 912 125 436 316		99 43		22	30			312	431	15 16 17 18
	77	200		12								53		10 534	19
				5	650 162 283, 058 759							23 56		9, 821	20 21 22 23 24
1, 730	2			12	450							56		845 140	25 26
					288 1, 479 75 3, 518	6, 974								1 18	27 28 29 30
4, 450	29		712	76	146, 922		24, 242			2, 015	200	18	23	123, 969	31
			7	16	826 30 2, 376					2, 015		14	11	119	32 33
			76	58								4	12	635	34 35 36
4, 450				2	31										
			200 426 3		6, 863 136, 773 23		662 23, 580				200			500 122, 715	37 38 39 40

TABLE 13.—TOTAL FREIGHT MOVEMENT BY EXTENDED LIST OF COMMODITIES—TOTAL SHIPMENT AND RECEIPTS—
GIVEN ONLY BY LAKE

	LAKES AND RIVER.	Total.	PRODUCTS OF AGRICULTURE.								PRODUCTS OF MINES AND QUARRIES.		
			Wheat.	Corn.	Other grain.	Mill products.	Fruit.	Hay.	Pota- toes.	Other.	Coal and coke.	Iron ore.	Other ore.
1	Receipts and shipments	51,203,106	1,888,312	3,513,515	980,514	1,886,189	26,984	18,077	3,698	132,517	11,268,270	15,303,180	71,562
2	Lake Superior	7,925,930	399,355	55,134	1,846	205,720	186	298	426	965	1,780,750	4,151,748	29,442
3	Lakes Huron and St. Clair	3,373,807	110,663	38,448	22,479	16,792	2,537	2,764	108	1,828	376,321	180,090	.....
4	Lake Michigan	18,571,258	352,019	1,778,318	500,596	738,833	23,567	12,722	1,988	72,174	2,865,278	4,451,577	.....
5	Lake Erie	19,343,875	978,733	1,493,145	336,684	878,067	390	446	.....	48,380	5,294,047	6,517,162	39,540
6	Lake Ontario	1,256,947	20,483	16,439	89,178	7	281	805	510	3,343	771,573	.....	.....
7	St. Lawrence river	731,289	27,059	132,031	29,731	46,770	23	1,042	666	5,827	180,301	2,603	2,580
8	Receipts	25,936,132	919,162	1,583,901	477,397	992,066	800	7,972	1,674	58,766	5,162,471	7,626,073	42,120
9	Lake Superior	2,491,149	.....	22	464	493	176	233	367	131	1,754,675	10,691	.....
10	Lakes Huron and St. Clair	1,029,356	29,246	10,638	16,275	11,963	147	234	.....	.....	362,747	117,639	.....
11	Lake Michigan	8,480,892	4,553	6,209	10,625	118,423	309	5,666	131	6,877	2,865,021	1,004,630	.....
12	Lake Erie	12,957,483	837,821	1,418,617	331,124	814,410	140	446	.....	48,165	97,865	6,490,518	39,540
13	Lake Ontario	485,220	20,483	16,438	89,178	7	5	351	510	3,274	7,218	.....	.....
14	St. Lawrence river	492,032	27,059	131,927	29,731	46,770	23	1,042	666	319	74,945	2,595	2,580
15	Shipments	25,266,974	969,150	1,929,614	503,117	894,123	26,184	10,105	2,024	73,751	6,105,799	7,677,107	29,442
16	Lake Superior	5,434,781	399,355	55,112	1,382	205,227	10	65	59	834	26,075	4,141,057	29,442
17	Lakes Huron and St. Clair	2,344,451	81,417	27,760	6,204	4,829	2,390	2,530	108	1,828	13,574	62,451	.....
18	Lake Michigan	10,090,366	347,466	1,772,109	489,971	620,410	23,258	7,056	1,857	65,297	257	3,446,947	.....
19	Lake Erie	6,386,392	140,912	74,528	5,560	63,657	250	.....	.....	215	5,196,182	26,644	.....
20	Lake Ontario	771,727	.....	1	.....	.....	276	454	.....	69	764,355	.....	.....
21	St. Lawrence river	239,257	.....	104	.....	.....	.....	.....	.....	5,508	105,356	8	.....

STATISTICS OF TRANSPORTATION.

TRAFFIC OPERA.

TABLE 14.—FREIGHT MOVEMENT OF UNCLASSIFIED COMMODITIES, NOT INCLUDED IN

[illegible]

95

THE FOREGOING TABLES, AND GIVEN BY THEIR VARIOUS UNITS OF MEASUREMENT.

[illegible]

STATISTICS OF TRANSPORTATION.

TRAFFIC OPERATIONS—Continued.

TABLE 15.—FREIGHT MOVEMENT OF UNCLASSIFIED COMMODITIES—REDUCTION OF THE UNCLASSIFIED COMMODITIES FROM THEIR VARIOUS UNITS OF MEASUREMENT INTO THE UNIFORM UNIT OF TONS.

COMMODITIES.	DESCRIPTION AND NUMBER OF UNITS OF MEASUREMENT.		Estimated weight in pounds per unit.	Estimated result in tons.	COMMODITIES.	DESCRIPTION AND NUMBER OF UNITS OF MEASUREMENT.		Estimated weight in pounds per unit.	Estimated result in tons.
	Number.	Unit.				Number.	Unit.		
Total.....	9,220,235		a99.95	460,777.23	Jars.....	260	Cases.....	150.00	19.50
Merchandise.....	8,937,402	Packages.....	100.00	446,870.10	Crockery.....	239	do.....	500.00	59.75
Pound poles.....	4,071	Pound poles.....	550.00	1,119.53	Currants.....	30	Barrels.....	150.00	2.25
White lead.....	500	Pounds.....	1.00	0.25	Railroad iron.....	538	Bars.....	500.00	139.50
Household goods.....	42	Packages.....	100.00	2.10	Tobacco.....	159	Cases.....	450.00	35.73
Household goods.....	13	Lots.....	100.00	0.65	Fish poles.....	3,445	Fish poles.....	5.00	8.61
Vehicles.....	13	Vehicles.....	200.00	1.30	Barley.....	4	Bushels.....	48.00	0.10
Furniture.....	29	Bundles.....	100.00	1.45	Sundries.....	206,466	Packages.....	100.00	*10,323.30
Empty barrels.....	7,442	Empty barrels.....	80.00	297.68	Blackberries.....	10	Gallons.....	10.00	0.05
Jugs.....	450	Jugs.....	10.00	2.25	Onions.....	800	Pounds.....	1.00	0.40
Trunks.....	8,031	Trunks.....	50.00	200.78	Chestnuts.....	100	do.....	1.00	0.05
Sash.....	25	Packages.....	100.00	1.25	Quinces.....	200	do.....	1.00	0.10
Piano.....	1	Piano.....	800.00	0.40	Paring pins.....	7,000	Paring pins.....	1.00	3.50
Pulp.....	560	Bales.....	100.00	28.00	Thrashing machines.....	30	Thrashing machines.....	6,000.00	90.00
Twine binders.....	1,000	Twine binders.....	300.00	150.00	Fan mills.....	300	Fan mills.....	500.00	75.00
Toys.....	25	Cases.....	100.00	1.25	Feed cutters.....	100	Feed cutters.....	500.00	25.00
Cabbages.....	2,000	Cabbages.....	10.00	10.00	Salt fish.....	4,454	Packages.....	200.00	445.40
Empty cases.....	696	Empty cases.....	25.00	8.70	Baskets.....	33,660	Bundles.....	50.00	841.50
					Rope.....	115	Coils.....	200.00	11.50
					Spikes.....	5	Kegs.....	100.00	0.25

a Average weight per unit.

TABLE 16.—FREIGHT MOVEMENT BY CARGO TONNAGE—RESULT IN TONS OF THE LAKE AND RIVER FREIGHTING, GROUPED BY PRINCIPAL COMMODITIES, AND REACHED BY MAKING AN AGGREGATE OF EACH PORT'S LARGER BUSINESS, WHETHER OF RECEIPTS OR SHIPMENTS.

[Canadian coastwise trade excluded.]

COMMODITIES.	Amount in tons.	Per cent of commodities and class to total tonnage.	COMMODITIES.	Amount in tons.	Per cent of commodities and class to total tonnage.
Total.....	27,394,767	100.00	Class II.—Continued.		
Class I.—Products of agriculture.....	4,506,011	16.45	Iron ore.....	7,677,107	28.02
Wheat.....	969,150	3.54	Stone (all kinds).....	311,015	1.14
Corn.....	1,929,614	7.04	Salt.....	296,513	1.08
Other grain.....	503,117	1.84	Other products of mines and quarries.....	58,117	0.21
Mill products.....	992,066	3.62	Class III.—Other products.....	6,921,985	25.27
All other farm products.....	112,064	0.41	Animal products.....	64,728	0.24
Class II.—Products of mines and quarries.....	14,448,551	52.74	Lumber.....	6,837,257	25.03
Coal.....	6,105,799	22.29	Class IV.—Manufactures, miscellaneous merchandise, and other commodities.....	1,518,220	5.54

TRAFFIC OPERATIONS—Continued.

TABLE 17.—PASSENGER TRAFFIC—PASSENGER MOVEMENT ON ALL THE LAKES AND ST. LAWRENCE RIVER, THE ENTRIES ACCREDITED TO THE PRINCIPAL PORTS AND DIVIDED INTO THE CLASSES OF REGULAR, EXCURSION, AND FERRY PASSENGERS.

LAKES AND RIVER.	Total.	Regular.	Excursion.	Ferry.	LAKES AND RIVER.	Total.	Regular.	Excursion.	Ferry.
Total.....	2,235,993	775,871	836,648	623,474	Lake Erie.....	598,885	114,768	369,924	114,193
Lake Superior.....	155,609	78,131	8,407	69,071	Buffalo.....	122,419	35,399	46,738	40,282
Duluth.....	7,010		7,010		Erie.....	43,815	21,355	22,460	
Marquette.....	148,599	78,131	1,397	69,071	Sandusky.....	173,696	57,260	43,530	72,906
					Suspension Bridge.....	1,909	754	150	1,005
					Toledo.....	257,046		257,046	
Lake Huron.....	755,516	315,120	189,468	250,928	Lake Ontario.....	129,296	66,840	62,456	
Detroit.....	406,317	233,196	173,121		Cape Vincent.....	50,467	45,422	5,045	
Port Huron.....	349,199	81,924	16,347	250,928	Oswego.....	31,540	2,000	29,540	
					Rochester.....	47,283	19,418	27,871	
Lake Michigan.....	506,696	197,458	123,230	186,008	St. Lawrence river.....	89,991	3,554	83,163	3,274
Chicago.....	110,093	11,182	56,511	42,400	Alexandria Bay.....	12,600		12,600	
Grand Haven.....	329,870	177,302	8,960	143,608	Clayton.....	446		446	
Milwaukee.....	66,733	8,974	57,759		Ogdensburg.....	76,945	3,554	70,117	3,274

TABLE 18.—FREIGHT VALUES—STATEMENT SHOWING ESTIMATED VALUE OF THE LAKE FREIGHT COMPUTED ON THE BASIS OF CARGO TONNAGE IN TABLE 16.

COMMODITIES.	Number of tons.	Estimated value per ton.	Estimated value of total tons.	COMMODITIES.	Number of tons.	Estimated value per ton.	Estimated value of total tons.
Total.....	27,394,767	\$13.12	\$359,482,437	Stone.....	311,015	\$10.00	\$3,110,150
Wheat.....	969,150	32.67	31,662,131	Salt.....	296,513	10.00	2,965,130
Corn.....	1,929,614	15.00	28,944,210	Other products of mines and quarries.....	58,117	155.38	9,030,140
Other grain.....	503,117	39.22	19,732,249	Animal products.....	64,728	100.00	6,472,800
Mill products.....	992,066	50.00	49,603,300	Lumber.....	6,857,257	10.30	70,629,747
All other farm products.....	112,064	89.79	10,062,215	Manufactures, miscellaneous merchandise, and other commodities. (a)	1,518,220	54.33	82,484,892
Coal.....	6,105,799	3.50	21,370,297				
Iron ore.....	7,677,107	3.05	23,415,176				

a Not including the unclassified merchandise given in Table 15.

EARNINGS AND EXPENSE ACCOUNTS.

TABLE 19.—FINANCIAL ACCOUNT IN GENERAL—GROSS EARNINGS, EXPENSES, AND NET EARNINGS OF 1,841 REPORTING (a) CRAFT GIVEN SEPARATELY BY STEAMERS, SAILING VESSELS, AND UNRIGGED, AND ENTERED FOR EACH PORT AND EACH LAKE.

ALL CRAFT.				STEAMERS—Continued.			
PORTS.	Gross earnings.	Expenses.	Net earnings.	PORTS.	Gross earnings.	Expenses.	Net earnings.
Total	\$24,369,895	\$19,443,241	\$4,926,654	Lake Ontario	\$140,339	\$129,829	\$10,510
Lake Superior	1,197,586	1,029,151	168,435	Cape Vincent	56,843	50,310	6,533
Duluth	92,181	77,585	14,596	Oswego	35,235	33,703	1,532
Marquette	1,105,405	951,566	153,839	Rochester	48,261	45,816	2,445
Lake Huron	6,955,133	5,349,465	1,605,668	St. Lawrence river	335,250	234,673	100,577
Detroit	3,792,600	2,812,931	979,669	Alexandria Bay	12,197	8,612	3,585
Port Huron	3,162,533	2,536,534	625,999	Clayton	1,100	634	466
Lake Michigan	5,826,148	4,843,159	982,989	Ogdensburg	321,953	225,427	96,526
Chicago	2,111,312	1,844,654	266,658	SAILING VESSELS.			
Grand Haven	1,316,530	1,127,899	188,631	Total	6,480,424	5,513,536	966,888
Milwaukee	2,398,306	1,870,606	527,700	Lake Superior	216,729	189,636	27,093
Lake Erie	9,649,090	7,621,541	2,027,549	Duluth	216,729	189,636	27,093
Buffalo	2,785,853	2,194,577	591,276	Marquette	216,729	189,636	27,093
Cleveland	4,344,697	3,441,929	902,768	Lake Huron	2,168,585	1,786,731	381,854
Erie	886,634	719,905	166,729	Detroit	847,471	683,159	164,312
Sandusky	868,840	683,054	185,786	Port Huron	1,321,114	1,103,572	217,542
Suspension Bridge	200,321	166,026	34,295	Lake Michigan	1,703,669	1,467,024	236,645
Toledo	562,745	416,050	146,695	Chicago	729,614	630,888	98,726
Lake Ontario	335,483	302,658	32,825	Grand Haven	352,229	317,381	34,848
Cape Vincent	104,713	88,069	16,644	Milwaukee	621,826	518,755	103,071
Oswego	133,255	127,157	6,098	Lake Erie	2,179,345	1,881,899	297,446
Rochester	97,515	87,432	10,083	Buffalo	409,487	352,903	56,584
St. Lawrence river	406,455	297,267	109,188	Cleveland	1,128,842	992,019	136,823
Alexandria Bay	12,197	8,612	3,585	Erie	18,918	13,980	4,938
Clayton	1,100	634	466	Sandusky	346,526	284,759	61,767
Ogdensburg	393,158	288,021	105,137	Suspension Bridge	84,191	72,861	11,330
STEAMERS.				Toledo	191,381	165,377	26,004
Total	17,808,329	13,861,485	3,946,844	Lake Ontario	195,144	172,829	22,315
Lake Superior	962,150	825,688	136,462	Cape Vincent	47,870	37,759	10,111
Duluth	92,181	77,585	14,596	Oswego	98,020	93,454	4,566
Marquette	869,969	748,103	121,866	Rochester	49,254	41,616	7,638
Lake Huron	4,786,548	3,562,734	1,223,814	St. Lawrence river	16,952	15,417	1,535
Detroit	2,945,129	2,129,772	815,357	Alexandria Bay	16,952	15,417	1,535
Port Huron	1,841,419	1,432,962	408,457	Clayton	16,952	15,417	1,535
Lake Michigan	4,122,479	3,376,135	746,344	Ogdensburg	16,952	15,417	1,535
Chicago	1,381,698	1,213,766	167,932	UNRIGGED.			
Grand Haven	964,301	810,518	153,783	Total	81,142	68,220	12,922
Milwaukee	1,776,480	1,351,851	424,629	Lake Superior	18,707	13,827	4,880
Lake Erie	7,461,563	5,732,426	1,729,137	Marquette	18,707	13,827	4,880
Buffalo	2,368,184	1,834,458	533,726	Lake Erie	8,182	7,216	966
Cleveland	3,215,855	2,448,910	766,945	St. Lawrence river	54,253	47,177	7,076
Erie	867,716	705,925	161,791	Ogdensburg	54,253	47,177	7,076
Sandusky	522,314	398,295	124,019				
Suspension Bridge	116,130	93,165	22,965				
Toledo	371,364	250,673	120,691				

a Steamers, 1,072; sailing vessels, 758; unriggered, 11. See supplementary table below.

SUPPLEMENTARY—ESTIMATED GROSS EARNINGS, EXPENSES, AND NET EARNINGS OF 896 CRAFT NOT REPORTING THESE ITEMS, THE ESTIMATE BEING BASED ON THE FIGURES ACTUALLY REPORTED FOR 1,841 CRAFT.

CLASS OF VESSELS.	Number of vessels.	Gross earnings.	Expenses.	Net earnings.	CLASS OF VESSELS.	Number of vessels.	Gross earnings.	Expenses.	Net earnings.
Total	896	\$11,093,957	\$8,448,811	\$2,645,146	Sailing vessels	204	\$1,760,221	\$1,497,593	\$262,628
Steamers	395	7,140,938	5,107,627	2,033,311	Unrigged	297	2,192,798	1,843,591	349,207

EARNINGS AND EXPENSE ACCOUNTS—Continued.

TABLE 20.—EXPENSE ACCOUNT IN DETAIL—ITEMIZED EXPENSE ACCOUNT OF 1,841 REPORTING (a) CRAFT, GIVEN SEPARATELY, FOR STEAMERS, SAILING VESSELS, AND UNRIGGED, SUBDIVIDED INTO THE VARIOUS ITEMS CONSTITUTING THE RUNNING AND SHORE EXPENSES.

ALL CRAFT.

LAKES AND RIVER.	Class.	Total expenses.	Port charges.	Wages.	Provisions.	Current repairs.	Fuel for the steamers.
Total.....	All classes.....	\$19,443,241	\$895,140	\$5,676,802	\$1,322,925	\$1,681,694	\$2,975,915
Great Lakes and St. Lawrence river.....	Steam.....	13,861,485	412,193	4,235,980	990,678	1,158,494	2,975,915
	Sail.....	5,513,536	465,248	1,422,857	328,207	522,557	
	Unrigged.....	68,220	17,699	17,865	4,040	643	
Lake Superior.....	All classes.....	1,029,151	67,771	322,173	80,209	76,515	200,405
	Steam.....	825,688	40,450	279,093	66,671	57,364	200,405
	Sail.....	189,636	24,189	40,307	12,678	18,849	
	Unrigged.....	13,827	3,132	2,773	860	302	
Duluth.....	Steam.....	77,585	2	32,149	6,537	7,995	15,061
Marquette.....	All classes.....	951,566	67,769	290,024	73,672	68,520	185,344
	Steam.....	748,103	40,448	246,944	60,134	49,369	185,344
	Sail.....	189,636	24,189	40,307	12,678	18,849	
	Unrigged.....	13,827	3,132	2,773	860	302	
Lake Huron.....	All classes.....	5,349,465	346,364	1,475,828	363,117	527,793	745,130
	Steam.....	3,562,734	124,394	1,105,881	271,668	348,815	745,130
	Sail.....	1,786,731	221,970	369,947	91,449	178,978	
Detroit.....	All classes.....	2,812,931	67,949	766,335	201,964	307,339	411,078
	Steam.....	2,129,772	38,091	626,589	169,535	248,556	411,078
	Sail.....	683,159	29,858	139,746	32,429	58,783	
Port Huron.....	All classes.....	2,536,534	278,415	709,493	161,153	220,454	334,052
	Steam.....	1,432,902	86,303	479,292	102,133	100,259	334,052
	Sail.....	1,103,572	192,112	230,201	59,020	120,195	
Lake Michigan.....	All classes.....	4,843,159	312,993	1,666,268	366,462	426,488	625,071
	Steam.....	3,376,135	160,067	1,140,815	256,676	253,580	625,071
	Sail.....	1,467,024	143,926	525,453	109,786	172,908	
Chicago.....	All classes.....	1,844,654	87,047	667,549	140,394	162,602	227,702
	Steam.....	1,213,766	31,262	446,404	94,397	82,289	227,702
	Sail.....	630,888	55,785	221,145	45,997	80,313	
Grand Haven.....	All classes.....	1,127,899	60,315	424,532	92,245	95,430	148,405
	Steam.....	810,518	21,875	305,414	65,822	66,611	148,405
	Sail.....	317,381	38,440	119,118	26,423	28,819	
Milwaukee.....	All classes.....	1,870,606	165,631	574,187	133,823	168,456	248,964
	Steam.....	1,351,851	115,930	388,997	96,457	104,680	248,964
	Sail.....	518,755	49,701	185,190	37,366	63,776	
Lake Erie.....	All classes.....	7,621,541	125,324	2,021,736	461,289	621,503	1,333,833
	Steam.....	5,732,426	59,450	1,591,422	368,247	478,706	1,333,833
	Sail.....	1,881,899	65,874	423,148	93,042	142,807	
	Unrigged.....	7,216		7,166		50	
Buffalo.....	All classes.....	2,194,577	29,766	611,058	142,982	166,848	523,315
	Steam.....	1,834,458	20,292	533,468	127,336	148,119	523,315
	Sail.....	352,903	9,474	70,424	15,646	18,679	
	Unrigged.....	7,216		7,166		50	
Cleveland.....	All classes.....	3,441,929	38,919	875,722	179,694	298,118	498,948
	Steam.....	2,449,910	14,960	652,146	131,313	218,854	498,948
	Sail.....	992,019	23,959	223,576	48,381	79,264	
Erie.....	All classes.....	719,905	2,941	176,716	49,445	67,877	145,258
	Steam.....	705,925	4	174,087	48,821	67,103	145,258
	Sail.....	13,980	2,937	2,629	624	774	
Sandusky.....	All classes.....	683,054	40,608	196,222	49,689	42,306	90,652
	Steam.....	398,295	20,132	127,533	33,528	19,006	90,652
	Sail.....	284,759	20,476	68,689	16,161	23,300	
Suspension Bridge.....	All classes.....	166,026	21	37,905	10,743	15,581	23,612
	Steam.....	93,165	5	26,355	7,415	11,199	23,612
	Sail.....	72,861	16	11,550	3,328	4,382	
Toledo.....	All classes.....	416,050	13,069	124,113	28,736	30,833	47,048
	Steam.....	250,673	4,057	77,833	19,834	14,425	47,048
	Sail.....	165,377	9,012	46,280	8,902	16,408	

a Steamers, 1,072; sailing vessels, 758; unriggered, 11. See supplementary table, page 105.

STATISTICS OF TRANSPORTATION.

EARNINGS AND EXPENSE ACCOUNTS—Continued.

TABLE 20.—EXPENSE ACCOUNT IN DETAIL, ETC.—Continued.

ALL CRAFT—Continued.

LAKES AND RIVER.	Class.	Total expenses.	Port charges.	Wages.	Provisions.	Current repairs.	Fuel for the steamers.
Lake Ontario	All classes	\$302,658	\$10,071	\$122,204	\$32,931	\$19,019	\$24,818
	Steam	129,829	800	61,991	13,599	10,704	24,818
	Sail	172,829	9,271	60,213	19,332	8,315	.....
Cape Vincent	All classes	88,069	3,293	37,421	17,065	5,147	11,724
	Steam	50,310	290	21,485	7,624	3,812	11,724
	Sail	37,759	2,913	15,936	9,441	1,335	.....
Oswego	All classes	127,157	6,308	46,012	9,550	8,383	6,083
	Steam	33,703	.....	16,726	2,979	2,207	6,083
	Sail	93,454	6,308	29,286	6,571	6,176	.....
Rochester	All classes	87,432	560	38,771	6,316	5,489	7,011
	Steam	45,816	510	23,780	2,996	4,685	7,011
	Sail	41,616	50	14,991	3,320	804	.....
St. Lawrence river	All classes	297,267	32,617	68,593	18,917	10,316	46,658
	Steam	234,673	18,932	56,778	13,817	9,325	46,658
	Sail	15,417	18	3,889	1,920	700	.....
	Unrigged	47,177	14,567	7,926	3,180	291	.....
Alexandria Bay	Steam	8,612	206	3,466	300	450	2,242
Clayton	Steam	634	.....	540	.....	.....	75
Ogdensburg	All classes	288,021	32,411	64,587	18,617	9,866	44,341
	Steam	225,427	17,826	52,772	13,517	8,875	44,341
	Sail	15,417	18	3,889	1,920	700	
	Unrigged	47,177	14,567	7,926	3,180	291	

TRANSPORTATION ON THE GREAT LAKES.

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EARNINGS AND EXPENSE ACCOUNTS—Continued.

TABLE 20.—EXPENSE ACCOUNT IN DETAIL, ETC.—Continued.

ALL CRAFT—Continued.

LAKES AND RIVER.	Class.	Other running expenses.	Commission.	Insurance.	Taxes.	Office expenses.	Other shore expenses.
Total.....	All classes.....	\$4,353,323	\$158,863	\$885,303	\$138,773	\$235,085	\$1,119,418
Great Lakes and St. Lawrence river	Steam	2,266,582	105,079	679,453	108,733	235,085	693,293
	Sail.....	2,062,546	53,274	203,632	29,990		425,125
	Unrigged.....	24,195	510	2,218	50		1,000
Lake Superior.....	All classes.....	216,176	1,125	33,066	4,653	7,993	19,065
	Steam	131,829	896	27,852	3,946	7,993	9,189
	Sail.....	77,667	199	5,214	657		9,876
	Unrigged.....	6,680	30		50		
Duluth.....	Steam	9,583		1,660	649	3,939	10
Marquette.....	All classes.....	206,593	1,125	31,406	4,004	4,054	19,055
	Steam	122,246	896	26,192	3,297	4,054	9,179
	Sail.....	77,667	199	5,214	657		9,876
	Unrigged.....	6,680	30		50		
Lake Huron.....	All classes.....	1,184,879	30,439	267,757	42,139	74,911	291,108
	Steam	460,967	16,581	197,838	33,914	74,911	182,635
	Sail.....	723,912	13,858	69,919	8,225		108,473
Detroit.....	All classes.....	572,104	15,873	162,817	25,713	59,079	222,680
	Steam	276,308	7,902	126,847	21,749	59,079	144,038
	Sail.....	295,796	7,971	35,970	3,964		78,642
Port Huron	All classes.....	612,775	14,566	104,940	16,426	15,832	68,428
	Steam	184,659	8,679	70,991	12,165	15,832	38,597
	Sail.....	428,116	5,887	33,949	4,261		29,831
Lake Michigan.....	All classes.....	888,508	69,743	181,787	33,500	80,828	191,511
	Steam	501,236	61,652	154,086	27,840	80,828	105,284
	Sail.....	387,272	8,091	27,701	5,660		86,227
Chicago.....	All classes.....	337,904	49,272	61,793	5,566	22,563	82,262
	Steam	180,794	43,943	38,793	3,845	22,563	41,774
	Sail.....	157,110	5,329	23,000	1,721		40,488
Grand Haven.....	All classes.....	201,737	3,048	32,357	8,990	17,140	43,700
	Steam	113,850	1,710	32,267	7,371	17,140	30,053
	Sail.....	87,887	1,338	90	1,619		13,647
Milwaukee.....	All classes.....	348,867	17,423	87,637	18,944	41,125	65,549
	Steam	206,592	15,999	83,026	16,624	41,125	33,457
	Sail.....	142,275	1,424	4,611	2,320		32,092
Lake Erie.....	All classes.....	1,917,147	49,181	369,298	57,239	67,408	597,523
	Steam	1,103,575	19,962	277,325	41,831	67,408	390,667
	Sail.....	813,572	29,219	91,973	15,408		206,856
	Unrigged.....						
Buffalo.....	All classes.....	495,959	7,936	74,452	1,005	8,495	127,761
	Steam	329,542	4,185	53,966	580	8,495	80,160
	Sail.....	166,417	3,751	20,486	425		47,601
	Unrigged.....						
Cleveland.....	All classes.....	904,218	30,086	239,467	45,364	43,176	288,217
	Steam	521,452	11,685	182,141	34,383	43,176	140,852
	Sail.....	382,766	18,401	57,326	10,981		147,365
Erie.....	All classes.....	114,313	211	3,099			160,045
	Steam	107,297	211	3,099			160,045
	Sail.....	7,016					
Sandusky.....	All classes.....	207,647	6,835	31,753	6,993	3,508	6,841
	Steam	71,419	2,563	21,915	4,503	3,508	3,536
	Sail.....	136,228	4,272	9,838	2,490		3,305
Suspension Bridge.....	All classes.....	71,394	410	1,600	25	805	3,930
	Steam	19,239	160	1,600	25	805	2,750
	Sail.....	52,155	250				1,180
Toledo.....	All classes.....	123,616	3,703	18,927	3,852	11,424	10,729
	Steam	54,626	1,158	14,604	2,340	11,424	3,324
	Sail.....	68,990	2,545	4,323	1,512		7,405

EARNINGS AND EXPENSE ACCOUNTS—Continued.

TABLE 20.—EXPENSE ACCOUNT IN DETAIL, ETC.—Continued

ALL CRAFT—Continued.

LAKES AND RIVER.	Class.	Other running expenses.	Commission.	Insurance.	Taxes.	Office expenses.	Other shore expenses.
Lake Ontario.....	All classes.....	\$60,235	\$3,543	\$11,681	\$694	\$933	\$16,529
	Steam.....	8,302	1,636	3,556	654	933	2,836
	Sail.....	51,933	1,907	8,125	40		13,693
Cape Vincent.....	All classes.....	9,481	873	1,905	215	583	452
	Steam.....	2,935	518	937	200	583	202
	Sail.....	6,546	355	968	15		250
Oswego.....	All classes.....	30,202	2,403	7,460	33		10,723
	Steam.....	1,581	1,115	1,420	8		1,584
	Sail.....	28,621	1,288	6,040	25		9,139
Rochester.....	All classes.....	20,552	267	2,316	446	350	5,354
	Steam.....	3,786	3	1,199	446	350	1,050
	Sail.....	16,766	264	1,117			4,304
St. Lawrence river.....	All classes.....	86,378	4,832	21,714	548	3,012	3,682
	Steam.....	60,673	4,352	18,796	548	3,012	2,682
	Sail.....	8,190		700			
	Unrigged...	17,515	480	2,218			1,000
Alexandria Bay.....	Steam.....	1,948					
Clayton.....	Steam.....	19					
Ogdensburg.....	All classes.....	84,411	4,832	21,714	548	3,012	3,682
	Steam.....	58,706	4,352	18,796	548	3,012	2,682
	Sail.....	8,190		700			
	Unrigged...	17,515	480	2,218			1,000

EARNINGS AND EXPENSE ACCOUNTS—Continued.

TABLE 20.—EXPENSE ACCOUNT IN DETAIL, ETC.—Continued.

STEAMERS.

LAKES AND RIVER.	Total expenses.	Port charges.	Wages.	Provisions.	Current repairs.	Fuel.
Total	\$13,861,485	\$412,193	\$4,235,980	\$990,678	\$1,158,494	\$2,975,915
Lake Superior	825,688	40,450	279,093	66,671	57,364	200,405
Duluth	77,585	2	32,149	6,537	7,995	15,061
Marquette	748,103	40,448	246,944	60,134	49,369	185,344
Lake Huron	3,562,734	124,394	1,105,881	271,668	348,815	745,130
Detroit	2,129,772	38,091	626,589	169,535	248,556	411,078
Port Huron	1,432,962	86,303	479,292	102,133	100,259	334,052
Lake Michigan	3,376,135	169,067	1,140,815	256,676	253,580	625,071
Chicago	1,213,766	31,262	446,404	94,397	82,289	227,702
Grand Haven	810,518	21,875	305,414	65,822	66,611	148,405
Milwaukee	1,351,851	115,930	388,997	96,457	104,680	248,964
Lake Erie	5,732,426	59,450	1,591,422	368,247	478,706	1,333,833
Buffalo	1,834,458	20,292	533,468	127,336	148,119	528,315
Cleveland	2,449,910	14,960	652,146	131,313	218,854	498,948
Erie	705,925	4	174,087	48,821	67,103	145,258
Sandusky	398,295	20,132	127,533	33,528	19,006	90,652
Suspension Bridge	93,165	5	26,355	7,415	11,199	23,612
Toledo	250,673	4,057	77,833	19,834	14,425	47,048
Lake Ontario	129,829	800	61,991	13,599	10,704	24,818
Cape Vincent	50,310	290	21,485	7,624	3,812	11,724
Oswego	33,703		16,726	2,979	2,207	6,085
Rochester	45,816	510	23,780	2,996	4,685	7,011
St. Lawrence river	234,673	18,032	56,778	13,817	9,325	46,658
Alexandria Bay	8,612	206	3,466	300	450	2,242
Clayton	634		540			75
Ogdensburg	225,427	17,826	52,772	13,517	8,875	44,341

LAKES AND RIVER.	Other running expenses.	Commission.	Insurance.	Taxes.	Office expenses.	Other shore expenses.
Total	\$2,266,582	\$105,079	\$679,453	\$108,733	\$235,085	\$693,293
Lake Superior	131,829	896	27,852	3,946	7,993	9,189
Duluth	9,583		1,660	111	3,939	10
Marquette	122,246	896	26,192	3,297	4,054	9,179
Lake Huron	460,967	16,581	197,838	33,914	74,911	182,635
Detroit	276,308	7,902	126,847	21,749	59,079	144,038
Port Huron	184,659	8,679	70,991	12,165	15,832	38,597
Lake Michigan	501,236	61,652	154,086	27,840	80,828	105,284
Chicago	180,794	43,943	38,793	3,845	22,563	41,774
Grand Haven	113,850	1,710	32,267	7,371	17,140	30,053
Milwaukee	206,592	15,999	83,026	16,624	41,125	33,457
Lake Erie	1,103,575	19,962	277,325	41,831	67,408	390,667
Buffalo	329,542	4,185	53,966	580	8,495	80,160
Cleveland	521,452	11,685	182,141	34,383	43,176	140,852
Erie	107,297	211	3,099			160,045
Sandusky	71,419	2,563	21,915	4,503	3,508	3,536
Suspension Bridge	19,239	160	1,600	25	805	2,750
Toledo	54,626	1,158	14,604	2,340	11,424	3,324
Lake Ontario	8,302	1,636	3,556	654	933	2,836
Cape Vincent	2,935	518	937	200	583	202
Oswego	1,581	1,115	1,420	8		1,584
Rochester	3,786	3	1,199	446	350	1,050
St. Lawrence river	60,673	4,352	18,796	548	3,012	2,682
Alexandria Bay	1,948					
Clayton	19					
Ogdensburg	58,706	4,352	18,796	548	3,012	2,682

EARNINGS AND EXPENSE ACCOUNTS—Continued.

TABLE 20.—EXPENSE ACCOUNT IN DETAIL, ETC.—Continued.

SAILING VESSELS.

LAKES AND RIVER.	Total expenses.	Port charges.	Wages.	Provisions.	Current repairs.	Fuel.
Total	\$5,513,536	\$465,248	\$1,422,957	\$328,207	\$522,557	.....
Lake Superior	189,636	24,189	40,307	12,678	18,849	.....
Duluth .....	.....	.....	.....	.....	.....	.....
Marquette	189,636	24,189	40,307	12,678	18,849	.....
Lake Huron	1,786,731	221,970	369,947	91,449	178,978	.....
Detroit	683,159	29,858	139,746	32,429	58,783	.....
Port Huron	1,103,572	192,112	230,201	59,020	120,195	.....
Lake Michigan	1,467,024	143,926	525,453	109,786	172,908	.....
Chicago	630,888	55,785	221,145	45,997	80,313	.....
Grand Haven	317,381	38,440	119,118	26,423	28,819	.....
Milwaukee	518,755	49,701	185,190	37,366	63,776	.....
Lake Erie	1,881,899	65,874	423,148	93,042	142,807	.....
Buffalo	852,903	9,474	70,424	15,646	18,679	.....
Cleveland	992,019	23,959	223,576	48,381	79,264	.....
Erie	13,980	2,937	2,629	624	774	.....
Sandusky	284,759	20,476	68,689	16,161	23,300	.....
Suspension Bridge	72,861	16	11,550	3,328	4,382	.....
Toledo	165,377	9,012	46,280	8,902	16,408	.....
Lake Ontario	172,829	9,271	60,213	19,332	8,315	.....
Cape Vincent	37,759	2,913	15,936	9,441	1,335	.....
Oswego	93,454	6,308	29,286	6,571	6,176	.....
Rochester	41,616	50	14,991	3,320	804	.....
St. Lawrence river	15,417	18	3,889	1,920	700	.....
Alexandria Bay .....	.....	.....	.....	.....	.....	.....
Clayton .....	.....	.....	.....	.....	.....	.....
Ogdensburg	15,417	18	3,883	1,920	700	.....
LAKES AND RIVER.	Other running expenses.	Commission.	Insurance.	Taxes.	Office expenses.	Other shore expenses.
Total	\$2,062,546	\$53,274	\$203,632	\$29,990	.....	\$425,125
Lake Superior	77,667	199	5,214	657	.....	9,876
Duluth .....	.....	.....	.....	.....	.....	.....
Marquette	77,667	199	5,214	657	.....	9,876
Lake Huron	723,912	13,858	69,919	8,225	.....	108,473
Detroit	295,796	7,971	35,970	3,964	.....	78,642
Port Huron	428,116	5,887	33,949	4,261	.....	29,831
Lake Michigan	387,272	8,091	27,701	5,660	.....	86,227
Chicago	157,110	5,329	23,000	1,721	.....	40,488
Grand Haven	87,887	1,338	90	1,619	.....	13,647
Milwaukee	142,275	1,424	4,611	2,320	.....	32,092
Lake Erie	813,572	29,219	91,973	15,408	.....	208,856
Buffalo	166,417	3,751	20,486	425	.....	47,601
Cleveland	382,766	18,401	57,326	10,981	.....	147,365
Erie	7,016	.....	.....	.....	.....	.....
Sandusky	136,228	4,272	9,858	2,490	.....	3,305
Suspension Bridge	52,155	250	.....	.....	.....	1,180
Toledo	68,990	2,545	4,323	1,512	.....	7,405
Lake Ontario	51,933	1,907	8,125	40	.....	13,693
Cape Vincent	6,546	355	968	15	.....	250
Oswego	28,621	1,288	6,040	25	.....	9,139
Rochester	16,766	264	1,117	.....	.....	4,304
St. Lawrence river	8,190	.....	700	.....	.....	.....
Alexandria Bay .....	.....	.....	.....	.....	.....	.....
Clayton .....	.....	.....	.....	.....	.....	.....
Ogdensburg	8,190	.....	700	.....	.....	.....

EARNINGS AND EXPENSE ACCOUNTS—Continued.

TABLE 20.—EXPENSE ACCOUNT IN DETAIL, ETC.—Continued.

UNRIGGED.

LAKES AND RIVER.	Total expenses.	Port charges.	Wages.	Provisions.	Current repairs.	Fuel.
Total	\$68,220	\$17,699	\$17,865	\$4,040	\$643	
Lake Superior: Marquette	13,827	3,132	2,773	860	302	
Lake Erie: Buffalo	7,216		7,166		50	
St. Lawrence river: Ogdensburg	47,177	14,567	7,926	3,180	291	

LAKES AND RIVER.	Other running expenses.	Commission.	Insurance.	Taxes.	Office expenses.	Other shore expenses.
Total	\$24,195	\$510	\$2,218	\$50		\$1,000
Lake Superior: Marquette	6,680	30		50		
Lake Erie: Buffalo						
St. Lawrence river: Ogdensburg	17,515	480	2,218			1,000

SUPPLEMENTARY—ESTIMATED ITEMIZED EXPENSE ACCOUNT OF 896 CRAFT NOT REPORTING THESE DETAILS, THE ESTIMATE BEING BASED ON THE FIGURES ACTUALLY REPORTED FOR 1,841 CRAFT.

CLASS OF VESSELS.	Number of vessels.	Total expenses.	Port charges.	Wages.	Provisions.	Current repairs.	Fuel.
Total	896	\$8,448,811	\$755,952	\$2,421,389	\$562,378	\$584,233	\$1,096,536
Steamers	395	5,107,627	151,881	1,560,915	365,035	426,869	1,096,536
Sailing vessels	204	1,497,593	124,589	381,046	87,897	139,946	
Unrigged	297	1,843,591	479,482	479,428	109,446	17,418	

CLASS OF VESSELS.	Other running expenses.	Commission.	Insurance.	Taxes.	Office expenses.	Other shore expenses.
Total	\$2,043,005	\$66,800	\$364,982	\$70,511	\$86,623	\$396,402
Steamers	835,168	38,718	250,359	40,065	86,623	255,458
Sailing vessels	552,371	14,267	54,534	29,090		113,853
Unrigged	655,466	13,815	60,089	1,356		27,091

EARNINGS AND EXPENSE ACCOUNTS—Continued.

TABLE 21.—EMPLOYÉES AND WAGES BY PORTS—MONTHLY WAGES PAID TO ALL EMPLOYÉES OF 1,841 REPORTING (a) CRAFT, WITH SEPARATE ENTRIES FOR STEAMERS, SAILING VESSELS, AND UNRIGGED, GIVEN IN DETAIL.

STEAMERS.

PORTS.	CAPTAINS.		FIRST MATES.		SECOND MATES.		CLERKS.		FIRST ENGINEERS.		SECOND ENGINEERS.		WHEELMEN.		LOOKOUTS.	
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.
Total.....	1,069	\$116,678	577	\$41,289	339	\$19,663	117	\$7,751	1,067	\$93,193	597	\$37,159	1,040	\$37,452	565	\$19,078
Superior.....	90	9,156	33	2,178	12	722	6	310	94	7,976	39	2,350	51	1,800	18	577
Duluth.....	20	1,620	1	50					24	1,810	1	40	1	50		
Marquette.....	70	7,536	32	2,128	12	722	6	310	70	6,166	38	2,310	50	1,750	18	577
Huron.....	250	27,607	180	12,468	82	4,591	40	2,644	249	22,402	178	11,277	323	10,841	155	5,215
Detroit.....	113	13,551	91	6,409	49	2,861	30	2,049	113	10,947	88	5,749	163	5,619	93	3,229
Port Huron.....	137	14,056	89	6,059	33	1,730	10	595	136	11,455	90	5,528	160	5,222	62	1,986
Michigan.....	323	33,067	141	9,575	68	3,869	42	2,890	327	27,010	156	9,193	239	8,842	85	2,823
Chicago.....	112	13,184	39	2,858	21	1,195	10	990	114	10,353	51	3,010	69	2,741	27	891
Grand Haven.....	115	9,430	42	2,570	14	720	23	1,210	116	8,395	43	2,253	75	2,555	15	486
Milwaukee.....	96	10,453	60	4,147	33	1,954	9	690	97	8,262	62	3,930	95	3,546	43	1,446
Erie.....	338	41,347	205	15,988	170	10,086	19	1,411	330	31,023	204	13,248	394	14,670	291	9,968
Buffalo.....	126	14,203	69	5,581	58	3,539	5	461	120	11,060	66	3,952	129	4,690	114	3,663
Cleveland.....	119	17,138	81	6,296	73	4,242			119	11,889	83	5,661	164	6,499	101	3,874
Erie.....	24	3,238	18	1,468	17	1,052	4	300	24	2,415	17	1,195	35	1,215	34	1,020
Sandusky.....	38	3,659	21	1,465	13	736	7	495	36	3,086	22	1,440	40	1,392	19	672
Suspension Bridge.....	6	738	4	300	3	160	2	80	6	528	4	265	8	240	8	240
Toledo.....	25	2,371	12	878	6	357	1	75	25	2,045	12	735	18	634	15	499
Ontario.....	46	3,471	8	390	1	35	8	406	46	3,182	11	526	18	775	6	185
Cape Vincent.....	19	1,505	5	210	1	35	4	165	20	1,436	4	190	6	220	2	60
Oswego.....	14	976					1	45	13	886	3	136	2	125	1	30
Rochester.....	13	990	3	180			3	196	13	860	4	200	10	430	3	95
St. Lawrence river.....	22	2,030	10	690	6	360	2	90	21	1,600	9	565	15	524	10	310
Alexandria Bay.....	3	240					1	60	3	240			1	35		
Clayton.....	1	60							1	60						
Ogdensburg.....	18	1,730	10	690	6	360	1	30	17	1,300	9	565	14	489	10	310

a 1,072 steamers; 758 sailing vessels; 11 unriggered. See supplementary table, page 110.

EARNINGS AND EXPENSE ACCOUNTS—Continued.

TABLE 21.—EMPLOYÉS AND WAGES BY PORTS, ETC.—Continued

STEAMERS—Continued.

PORTS.	WATCHMEN.		COOKS.		ASSISTANT COOKS.		SEAMEN.		DECK HANDS.		FIREMEN.		STEWARDS.		WAITERS.	
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.
Total.....	503	\$16,583	720	\$37,106	306	\$6,419	52	\$1,870	2,278	\$53,992	1,463	\$53,411	75	\$4,457	215	\$4,395
Superior	25	783	55	2,552	17	385			133	3,600	102	3,702	2	100	7	120
Duluth.....			11	340					19	835	8	295				
Marquette.....	25	783	44	2,212	17	385			114	2,765	94	3,407	2	100	7	120
Huron	160	5,277	204	9,902	82	1,482	15	450	569	13,263	381	13,392	17	1,037	83	1,794
Detroit.....	90	3,085	107	5,215	46	861	15	450	349	8,573	206	7,606	14	842	75	1,634
Port Huron.....	70	2,192	97	4,687	36	621			220	4,690	175	5,786	3	195	8	160
Michigan	113	3,797	217	12,429	63	1,351	19	640	574	16,897	352	13,529	16	975	44	817
Chicago.....	39	1,280	82	5,841	24	615	10	315	216	6,906	133	5,608	8	530	26	514
Grand Haven.....	25	751	55	2,621	15	300	2	30	130	3,452	119	4,064	6	310	15	245
Milwaukee.....	49	1,766	80	3,967	24	436	7	295	228	6,539	100	3,857	2	135	3	54
Erie.....	191	6,343	217	11,228	136	3,019	13	635	904	17,806	588	21,479	37	2,205	74	1,564
Buffalo.....	68	2,082	56	3,057	33	808			325	5,584	247	8,724	26	1,660	54	1,175
Cleveland.....	65	2,475	90	4,846	67	1,321	6	360	301	6,736	197	7,765				
Erie.....	33	990	17	1,063	17	585	4	200	117	1,870	71	2,505	5	350	13	260
Sandusky.....	14	474	33	1,352	11	165			96	2,256	37	1,331			1	15
Suspension Bridge.....			4	240	3	60			12	340	10	323				
Toledo.....	11	322	17	670	5	80	3	75	53	1,020	26	831	6	195	6	114
Ontario	7	178	14	467	2	42			62	1,740	22	603	3	140	7	104
Cape Vincent.....	5	108	8	312	2	42			30	790	14	393	3	140	6	84
Oswego.....	1	40	4	110					12	370	4	130				
Rochester.....	1	30	2	45					20	580	4	170			1	20
St. Lawrence river.....	7	205	13	528	6	140	5	145	36	686	18	616				
Alexandria Bay.....	1	25							3	90	1	40				
Clayton.....									1	15						
Ogdensburg.....	1	180	13	528	6	140	5	145	32	581	17	576				

STATISTICS OF TRANSPORTATION.

EARNINGS AND EXPENSE ACCOUNTS—Continued.

TABLE 21.—EMPLOYÉS AND WAGES BY PORTS, ETC.—Continued.

STEAMERS—Continued.

PORTS.	BOYS.		CHAMBERMAIDS.		PORTERS.		MUSICIANS.		Number persons making ordinary crew.	Number persons given employment during year.	Total wages paid per month.	Average rate of wages per month.
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.				
Total	30	\$549	49	\$1,097	89	\$2,245	8	\$520	11,159	19,444	\$554,907	\$49.73
Superior			1	18	5	150			691	1,078	36,479	52.79
Duluth									85	98	5,040	59.29
Marquette			1	18	6	150			606	980	31,439	51.88
Huron	7	129	20	420	17	417			3,012	4,650	144,608	48.01
Detroit	5	99	19	400	16	397			1,682	2,617	79,576	47.31
Port Huron	2	30	1	20	1	20			1,330	2,033	65,032	48.90
Michigan	14	215	15	361	5	121			2,813	5,612	148,397	52.75
Chicago	1	15	8	188	1	20			991	2,101	57,054	57.57
Grand Haven	11	170	2	50	4	101			827	1,603	39,713	48.02
Milwaukee	2	30	5	123					995	1,908	51,630	51.89
Erie	8	195	10	240	61	1,557	8	520	4,198	7,372	204,532	48.72
Buffalo	7	175	5	120	36	917			1,544	1,828	71,451	46.28
Cleveland									1,466	3,728	79,102	53.96
Erie			4	100	20	500			474	524	20,326	42.88
Sandusky	1	20			2	65			391	699	18,623	47.63
Suspension Bridge									70	137	3,514	50.20
Toledo			1	20	3	75	8	520	253	456	11,516	45.52
Ontario	1	10	3	58					265	321	12,402	46.80
Cape Vincent			2	38					131	163	5,728	43.73
Oswego									55	72	2,848	51.78
Rochester	1	10	1	20					79	86	3,826	48.43
St. Lawrence river									180	411	8,489	47.16
Alexandria Bay									13	13	730	56.15
Clayton									3	3	135	45.00
Ogdensburg									164	395	7,624	46.49

TRANSPORTATION ON THE GREAT LAKES.

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EARNINGS AND EXPENSE ACCOUNTS—Continued.

TABLE 21.—EMPLOYÉS AND WAGES BY PORTS, ETC.—Continued.

SAILING VESSELS.

PORTS	CAPTAINS.		FIRST MATES.		SECOND MATES.		WATCHMEN.		COOKS.		SEAMEN.		BOYS.		Number of persons making ordinary crew.	Number of persons given employment during year.	Total wages paid per month.	Average rate of wages per month.
	No.	Month-ly wages.	No.	Month-ly wages.	No.	Month-ly wages.	No.	Month-ly wages.	No.	Month-ly wages.	No.	Month-ly wages.	No.	Month-ly wages.				
Total.....	757	\$58,426	632	\$32,952	132	\$6,641	2	\$50	660	\$23,547	2,354	\$90,369	4	\$73	4,541	8,700	\$212,058	\$46.70
Superior:																		
Marquette.....	25	1,917	15	900	7	380			18	720	69	2,752			134	363	6,669	49.77
Huron.....	215	15,116	177	8,048	14	645			188	5,729	672	21,748			1,266	2,203	51,286	40.51
Detroit.....	70	5,187	56	2,832	7	313			62	1,894	232	8,185			427	629	18,411	43.12
Port Huron.....	145	9,929	121	5,216	7	332			126	3,835	440	13,563			839	1,574	32,875	39.18
Michigan.....	309	23,427	257	13,606	36	1,939	2	50	269	10,774	817	35,437			1,690	2,862	85,233	50.43
Chicago.....	99	8,828	90	5,223	22	1,208	1	30	95	4,296	365	16,955			672	1,269	36,540	54.38
Grand Haven.....	86	5,608	62	3,070	5	244	1	20	70	2,487	172	7,054			396	684	18,483	46.67
Milwaukee.....	124	8,991	105	5,313	8	487			104	3,991	280	11,428			622	909	30,210	48.57
Erie.....	165	15,235	154	8,877	70	3,395			154	5,471	671	25,825	4	73	1,218	2,912	58,876	48.34
Buffalo.....	28	2,458	28	1,439	4	203			27	961	118	4,592			205	398	9,653	47.09
Cleveland.....	76	7,629	73	4,494	51	2,384			73	2,732	320	12,609			597	1,584	29,921	50.12
Erie.....	1	100	1	60	1	51			1	30	4	120	4	73	8	8	361	45.13
Sandusky.....	31	2,600	24	1,417	12	664			25	819	109	4,454			201	571	9,954	49.52
Suspension Bridge.....	8	555	7	280					7	210	36	1,070			58	90	2,115	36.47
Toledo.....	21	1,893	21	1,187	2	93			21	719	84	2,980			149	261	6,872	46.12
Ontario.....	40	2,546	28	1,471	5	282			28	811	110	4,337			211	294	9,447	44.77
Cape Vincent.....	20	943	10	415					10	270	40	1,341			80	93	2,989	37.11
Oswego.....	12	993	11	662	4	237			11	343	43	1,836			81	133	4,071	50.26
Rochester.....	8	610	7	394	1	45			7	198	27	1,160			50	68	2,407	48.14
St. Lawrence river:																		
Ogdensburg.....	3	185	1	50					3	42	15	270			22	66	547	24.86

STATISTICS OF TRANSPORTATION.

EARNINGS AND EXPENSE ACCOUNTS—Continued.

TABLE 21.—EMPLOYÉS AND WAGES BY PORTS, ETC.—Continued

UNRIGGED.

PORTS.	CAPTAINS.		FIRST MATES.		COOKS.		SEAMEN.		Number of persons making ordinary crew.	Number of persons given employment during year.	Total wages paid per month.	Average rate of wages per month.
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.				
Total	11	\$695	5	\$230	7	\$141	38	\$1,016	61	151	\$2,082	\$34.13
Superior:												
Marquette	1	100	1	60	1	50	4	156	7	28	366	52.29
Erie:												
Buffalo	3	230	1	60			10	385	14	14	675	48.21
St. Lawrence river:												
Ogdensburg	7	365	3	110	6	91	24	475	40	109	1,041	26.03

SUPPLEMENTARY—ESTIMATED NUMBER OF EMPLOYÉS AND MONTHLY WAGES PAID ON 896 CRAFT NOT REPORTING THESE DETAILS, THE ESTIMATE BEING BASED ON THE FIGURES ACTUALLY REPORTED FOR 1,841 CRAFT.

CLASS OF VESSELS.	Number of vessels.	CAPTAINS.		FIRST MATES.		SECOND MATES.		CLERKS.		FIRST ENGINEERS.		SECOND ENGINEERS.		WHEELMEN.		LOOKOUTS.	
		No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.
Total	896	895	\$77,501	512	\$30,035	160	\$9,011	43	\$2,849	393	\$34,325	220	\$13,781	385	\$13,864	213	\$7,199
Steamers	395	394	43,005	213	15,242	125	7,250	43	2,849	393	34,325	220	13,781	385	13,864	213	7,199
Sailing vessels	204	204	15,731	169	8,813	35	1,761										
Unrigged	297	297	18,765	130	5,980												

CLASS OF VESSELS.	WATCHMEN.		COOKS.		ASSISTANT COOKS.		SEAMEN.		DECK HANDS.		FIREMEN.		STEWARDS.		WAITERS.	
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.
Total	152	\$5,004	639	\$24,128	118	\$2,476	1,667	\$52,088	850	\$20,145	547	\$19,971	28	\$1,674	79	\$1,615
Steamers	151	4,979	271	13,967	118	2,476	19	683	850	20,145	547	19,971	28	1,674	79	1,615
Sailing vessels	1	25	177	6,315			639	24,186								
Unrigged			191	3,846			1,018	27,219								

CLASS OF VESSELS.	BOYS.		CHAMBERMAIDS.		PORTERS.		Number of persons making ordinary crew.	Number of persons given employment during year.	Total wages paid per month.	Average rate of wages per month.
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.				
Total	12	\$219	19	\$421	33	\$832	6,965	13,586	\$317,138	\$45.53
Steamers	11	201	19	421	33	832	4,112	7,165	204,479	49.73
Sailing vessels	1	18					1,217	2,330	56,849	46.71
Unrigged							1,636	4,091	55,810	34.11

EARNINGS AND EXPENSE ACCOUNTS—Continued.

TABLE 22.—EMPLOYÉES AND WAGES BY LAKE TOTALS—MONTHLY WAGES PAID TO ALL EMPLOYÉES OF 1,841 REPORTING (a) CRAFT, WITH SEPARATE ENTRIES FOR STEAMERS, SAILING VESSELS, AND UNRIGGED, BUT GIVEN ONLY IN TOTALS FOR EACH LAKE AND ST. LAWRENCE RIVER.

ALL CRAFT.

LAKES AND RIVER.	CAPTAINS.		FIRST MATES.		SECOND MATES.		CLERKS.		FIRST ENGI-NEERS.		SECOND ENGI-NEERS.		WHEELMEN.		LOOKOUTS.	
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.
Total	1,837	\$175,799	1,214	\$74,471	471	\$26,304	117	\$7,751	1,067	\$93,193	597	\$37,159	1,040	\$37,452	565	\$19,078
Superior	116	11,173	49	3,138	19	1,102	6	310	94	7,976	39	2,350	51	1,800	18	577
Huron	465	42,725	357	20,516	96	5,236	40	2,644	249	22,402	178	11,277	323	10,841	155	5,215
Michigan	632	56,494	398	23,181	104	5,808	42	2,890	327	27,010	156	9,193	239	8,842	85	2,823
Erie	506	56,812	360	24,925	240	13,481	19	1,411	330	31,023	204	13,248	394	14,670	291	9,968
Ontario	86	6,017	36	1,861	6	317	8	406	46	3,182	11	526	18	775	6	185
St. Lawrence river	32	2,580	14	850	6	360	2	90	21	1,600	9	565	15	524	10	310

LAKES AND RIVER.	WATCHMEN.		COOKS.		ASSISTANT COOKS.		SEAMEN.		DECK HANDS.		FIREMEN.		STEWARDS.		WAITERS.	
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.
Total	505	\$16,633	1,387	\$60,794	306	\$6,419	2,444	\$93,255	2,278	\$53,992	1,463	\$53,411	75	\$4,457	215	\$4,395
Superior	25	783	74	3,322	17	385	73	2,908	133	3,600	102	3,702	2	100	7	120
Huron	160	5,277	392	15,631	82	1,482	687	22,198	569	13,263	381	13,392	17	1,037	83	1,794
Michigan	115	3,847	486	23,203	63	1,351	836	36,077	574	16,897	352	13,529	16	975	44	813
Erie	191	6,343	371	16,699	136	3,019	694	26,815	904	17,806	588	21,479	37	2,205	74	1,564
Ontario	7	178	42	1,278	2	42	110	4,337	62	1,740	22	693	3	140	7	104
St. Lawrence river	7	205	22	661	6	140	44	890	36	686	18	616				

LAKES AND RIVER.	BOYS.		CHAMBERMAIDS.		PORTERS.		MUSICIANS.		Number persons making ordinary crew.	Number persons given employment during year.	Total wages paid per month.	Average rate of wages per month.
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.				
Total	34	\$622	49	\$1,097	89	\$2,245	8	\$520	15,761	28,295	\$769,047	\$48.79
Superior			1	18	6	150			832	1,469	43,514	52.30
Huron	7	129	20	420	17	417			4,278	6,853	195,894	45.79
Michigan	14	215	15	361	5	121			4,503	8,474	233,630	51.88
Erie	12	268	10	240	61	1,557	8	520	5,430	10,298	264,083	48.63
Ontario	1	10	3	58					476	615	21,849	45.90
St. Lawrence river									242	586	10,077	41.64

STEAMERS.

LAKES AND RIVER.	CAPTAINS.		FIRST MATES.		SECOND MATES.		CLERKS.		FIRST ENGI-NEERS.		SECOND ENGI-NEERS.		WHEELMEN.		LOOKOUTS.	
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.
Total	1,069	\$116,678	577	\$41,289	339	\$19,663	117	\$7,751	1,067	\$93,193	597	\$37,159	1,040	\$37,452	565	\$19,078
Superior	90	9,156	33	2,178	12	722	6	310	94	7,976	39	2,350	51	1,800	18	577
Huron	250	27,607	180	12,468	82	4,591	40	2,644	249	22,402	178	11,277	323	10,841	155	5,215
Michigan	323	33,067	141	9,575	68	3,869	42	2,890	327	27,010	156	9,193	239	8,842	85	2,823
Erie	338	41,347	205	15,988	170	10,086	19	1,411	330	31,023	204	13,248	394	14,670	291	9,968
Ontario	46	3,471	8	390	1	35	8	406	46	3,182	11	526	18	775	6	185
St. Lawrence river	22	2,030	10	690	6	360	2	90	21	1,600	9	565	15	524	10	310

LAKES AND RIVER.	WATCHMEN.		COOKS.		ASSISTANT COOKS.		SEAMEN.		DECK HANDS.		FIREMEN.		STEWARDS.		WAITERS.	
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.
Total	503	\$16,583	720	\$37,106	306	\$6,419	52	\$1,870	2,278	\$53,992	1,463	\$53,411	75	\$4,457	215	\$4,395
Superior	25	783	55	2,552	17	385			133	3,600	102	3,702	2	100	7	120
Huron	160	5,277	204	9,902	82	1,482	15	450	569	13,263	381	13,392	17	1,037	83	1,794
Michigan	113	3,797	217	12,429	63	1,351	19	640	574	16,897	352	13,529	16	975	44	813
Erie	191	6,343	217	11,228	136	3,019	13	635	904	17,806	588	21,479	37	2,205	74	1,564
Ontario	7	178	14	467	2	42			62	1,740	22	693	3	140	7	104
St. Lawrence river	7	205	13	528	6	140	5	145	36	686	18	616				

a 1,072 steamers; 758 sailing vessels; 11 unrigged. See supplementary table, page 110.

STATISTICS OF TRANSPORTATION.

EARNINGS AND EXPENSE ACCOUNTS—Continued.

TABLE 22.—EMPLOYÉS AND WAGES BY LAKE TOTALS, ETC.—Continued.

STEAMERS—Continued.

LAKES AND RIVER.	BOYS.		CHAMBERMAIDS.		PORTERS.		MUSICIANS.		Number persons making ordinary crew.	Number persons given employment during year.	Total wages paid per month.	Average rate of wages per month.
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.				
Total	30	\$549	49	\$1,097	89	\$2,245	8	\$520	11,159	19,444	\$554,907	\$49.73
Superior	7	129	1	18	6	150			691	1,078	36,479	52.79
Huron	7	129	20	420	17	417			3,012	4,650	144,608	48.01
Michigan	14	225	15	361	5	121			2,813	5,612	148,397	52.75
Erie	8	195	10	240	61	1,557	8	520	4,198	7,372	204,532	48.72
Ontario	1	10	3	58					265	321	12,402	46.80
St. Lawrence river									180	411	8,489	47.16

SAILING VESSELS.

LAKES AND RIVER.	CAPTAINS.		FIRST MATES.		SECOND MATES.		CLERKS.		FIRST ENGINEERS.		SECOND ENGINEERS.		WHEELMEN.		LOOKOUTS.	
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.
Total	757	\$58,426	632	\$22,952	132	\$6,641										
Superior	25	1,917	15	900	7	380										
Huron	215	15,116	177	8,048	14	645										
Michigan	309	23,427	257	13,606	36	1,939										
Erie	165	15,235	154	8,877	70	3,395										
Ontario	40	2,546	28	1,471	5	282										
St. Lawrence river	3	185	1	50												

LAKES AND RIVER.	WATCHMEN.		COOKS.		ASSISTANT COOKS.		SEAMEN.		DECK HANDS.		FIREMEN.		STEWARDS.		WAITERS.	
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.
Total	2	\$50	660	\$23,547			2,354	\$90,369								
Superior			18	720			69	2,752								
Huron			188	5,729			672	21,748								
Michigan	2	50	269	10,774			817	35,437								
Erie			154	5,471			671	25,825								
Ontario			28	811			110	4,337								
St. Lawrence river			3	42			15	270								

LAKES AND RIVER.	BOYS.		CHAMBERMAIDS.		PORTERS.		MUSICIANS.		Number persons making ordinary crew.	Number persons given employment during year.	Total wages paid per month.	Average rate of wages per month.
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.				
Total	4	\$73							4,541	8,700	\$212,058	\$46.70
Superior									134	363	6,669	49.77
Huron									1,266	2,203	51,286	40.51
Michigan									1,690	2,862	85,233	50.43
Erie	4	73							1,218	2,912	58,876	48.34
Ontario									211	294	9,447	44.77
St. Lawrence river									22	66	547	24.86

TRANSPORTATION ON THE GREAT LAKES.

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EARNINGS AND EXPENSE ACCOUNTS—Continued.

TABLE 22.—EMPLOYÉS AND WAGES BY LAKE TOTALS, ETC.—Continued.

UNRIGGED.

LAKES AND RIVER.	CAPTAINS.		FIRST MATES.		SECOND MATES.		CLERKS.		FIRST ENGI-NEERS.		SECOND ENGI-NEERS.		WHEELMEN.		LOOKOUTS.	
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.
Total	11	\$695	5	\$230												
Superior	1	100	1	60												
Erie	3	230	1	60												
St. Lawrence river	7	365	3	110												

LAKES AND RIVER.	WATCHMEN.		COOKS.		ASSISTANT COOKS.		SEAMEN.		DECK HANDS.		FIREMEN.		STEWARDS.		WAITERS.	
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.
Total			7	\$141			38	\$1,016								
Superior			1	50			4	156								
Erie							10	385								
St. Lawrence river			6	91			24	475								

LAKES AND RIVER.	BOYS.		CHAMBERMAIDS.		PORTERS.		MUSICIANS.		Number persons making ordinary crew.	Number persons given employment during year.	Total wages paid per month.	Average rate of wages per month.
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.				
Total									61	151	\$2,082	\$34.13
Superior									7	28	366	52.29
Erie									14	14	675	48.21
St. Lawrence river									40	109	1,041	26.03

STATISTICS OF TRANSPORTATION.

EARNINGS AND EXPENSE ACCOUNTS—Continued.

TABLE 23.—FUEL ACCOUNT—AMOUNTS AND VALUE OF THE COAL AND WOOD USED AS FUEL ON 1,072 REPORTING STEAMERS, WITH SEPARATE ENTRIES UNDER THE HEADS OF CLASSIFIED OCCUPATIONS. (a)

LAKES AND RIVER.	Tons of coal.	Cords of wood.	Cost of fuel.	PASSENGER, PASSENGER AND FREIGHT, AND FREIGHT.			FERRY.			TOWBOATS.			MISCELLANEOUS.		
				Coal in tons.	Wood in cords.	Value.	Coal in tons.	Wood in cords.	Value.	Coal in tons.	Wood in cords.	Value.	Coal in tons.	Wood in cords.	Value.
Total.....	1, 118, 677	62, 319	\$2, 975, 915	922, 826	31, 227	\$2, 392, 310	4, 828	2, 096	\$15, 595	160, 007	26, 036	\$475, 002	31, 016	2, 960	\$93, 008
Lake Superior.....	67, 994	1, 100	200, 405	48, 001	.....	138, 851	1, 127	.....	3, 546	17, 066	1, 100	54, 020	1, 800	.....	3, 988
Duluth.....	4, 665	800	15, 061	150	.....	488	.....	.....	.....	4, 515	800	14, 573	.....	.....	.....
Marquette.....	63, 329	300	185, 344	47, 851	.....	138, 363	1, 127	.....	3, 546	12, 551	300	39, 447	1, 800	.....	3, 988
Lake Huron.....	324, 209	.....	745, 130	252, 666	.....	590, 833	439	.....	1, 325	54, 509	.....	107, 731	16, 595	.....	45, 241
Detroit.....	191, 118	.....	411, 078	157, 305	.....	346, 014	.....	.....	.....	23, 348	.....	35, 827	10, 465	.....	29, 237
Port Huron.....	133, 091	.....	334, 052	95, 361	.....	244, 819	439	.....	1, 325	31, 161	.....	71, 904	6, 130	.....	16, 004
Lake Michigan.....	205, 591	60, 843	625, 071	150, 347	30, 851	399, 437	1, 920	2, 096	6, 790	44, 678	24, 936	189, 726	8, 646	2, 960	29, 118
Chicago.....	68, 898	8, 678	227, 702	35, 025	7, 067	110, 012	640	.....	228	27, 336	1, 611	98, 812	5, 897	.....	18, 650
Grand Haven.....	58, 877	29, 048	148, 405	47, 212	16, 761	95, 742	1, 000	2, 096	5, 722	10, 563	7, 231	44, 176	102	2, 960	2, 765
Milwaukee.....	77, 816	23, 117	248, 964	68, 110	7, 023	193, 683	280	.....	840	6, 779	16, 094	46, 738	2, 647	.....	7, 708
Lake Erie.....	497, 268	.....	1, 333, 833	455, 216	.....	1, 213, 339	1, 039	.....	2, 692	37, 713	.....	105, 571	3, 300	.....	12, 231
Buffalo.....	185, 154	.....	528, 315	167, 061	.....	476, 043	889	.....	2, 392	16, 404	.....	46, 824	800	.....	3, 956
Cleveland.....	203, 301	.....	498, 948	186, 474	.....	451, 314	.....	.....	.....	15, 577	.....	42, 459	1, 250	.....	5, 175
Erie.....	44, 138	.....	145, 258	43, 838	.....	144, 258	.....	.....	.....	.....	.....	.....	300	.....	1, 008
Sandusky.....	37, 217	.....	90, 652	35, 237	.....	85, 974	150	.....	300	1, 780	.....	4, 178	50	.....	200
Suspension Bridge.....	8, 300	.....	23, 612	7, 551	.....	20, 732	.....	.....	.....	749	.....	2, 880	.....	.....	.....
Toledo.....	19, 158	.....	47, 048	15, 055	.....	35, 018	.....	.....	.....	3, 203	.....	9, 230	900	.....	2, 800
Lake Ontario.....	6, 281	.....	24, 818	4, 117	.....	17, 051	.....	.....	.....	1, 769	.....	6, 197	395	.....	1, 570
Cape Vincent.....	2, 795	.....	11, 724	2, 395	.....	10, 124	.....	.....	.....	150	.....	500	250	.....	1, 100
Oswego.....	1, 644	.....	6, 083	240	.....	1, 016	.....	.....	.....	1, 259	.....	4, 597	145	.....	470
Rochester.....	1, 842	.....	7, 011	1, 482	.....	5, 911	.....	.....	.....	360	.....	1, 100	.....	.....	.....
St. Lawrence river.....	17, 334	376	46, 658	12, 479	376	32, 799	303	.....	1, 242	4, 272	.....	11, 757	280	.....	860
Alexandria Bay.....	718	.....	2, 242	638	.....	1, 982	.....	.....	.....	.....	.....	.....	80	.....	260
Clayton.....	14	.....	75	14	.....	75	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ogdensburg.....	16, 602	376	44, 341	11, 827	376	30, 742	303	.....	1, 242	4, 272	.....	11, 757	200	.....	600

a Not including estimated amount and value of the coal and wood used as fuel on 395 steamers not reporting these items. See supplementary table below.

SUPPLEMENTARY—ESTIMATED AMOUNT AND VALUE OF THE COAL AND WOOD USED AS FUEL ON 395 STEAMERS NOT REPORTING THESE ITEMS, THE ESTIMATE BEING BASED ON THE FIGURES ACTUALLY REPORTED FOR 1,072 STEAMERS.

GREAT LAKES AND ST. LAWRENCE RIVER.		Number of vessels.	Tons of coal.	Cords of wood.	Cost of fuel.
Total		395	412, 320	22, 969	\$1, 096, 536

TRANSPORTATION ON THE GREAT LAKES.

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COMPARATIVE STATISTICS.

TABLE 24.—STEAMERS BY CLASSES IN 1880 AND 1889—NUMBER, TONNAGE, AND VALUE OF STEAMERS IN 1880 AND 1889, AS REPORTED BY THE TENTH AND ELEVENTH CENSUSES, AND GIVEN BY CLASSES OF OCCUPATION.

CLASSES.	Year.	Number.	Tonnage.	Value.
Total	1880 1889	947 1,467	222,290 595,813	\$13,918,925 40,868,824
Passenger and freight	1880 1889	343 798	195,625 560,144	11,253,800 37,010,324
Ferry	1880 1889	28 40	3,624 4,702	340,500 498,000
Towing and harbor	1880 1889	426 520	20,275 26,200	1,978,800 2,837,800
Miscellaneous	1880 1889	150 109	2,766 4,767	345,825 522,700

TABLE 25.—EXPENSE ACCOUNTS IN 1880 AND 1889—GROSS EARNINGS OF STEAMERS OPERATING IN 1880 AND 1889, AS REPORTED BY THE TENTH AND ELEVENTH CENSUSES, TOGETHER WITH THE AMOUNTS PAID OUT IN WAGES DURING THOSE YEARS.

GREAT LAKES AND ST. LAWRENCE RIVER.	Year.	Gross earnings.	Paid in wages.
Total	1880 1889	\$12,136,228 24,949,267	\$3,293,964 5,796,895

TABLE 26.—CREWS AND WAGES IN 1880 AND 1889—NUMBER OF MEN CONSTITUTING THE ORDINARY CREWS EMPLOYED ON ALL OPERATING STEAMERS IN 1880 AND 1889, AS REPORTED BY THE TENTH AND ELEVENTH CENSUSES, TOGETHER WITH WAGES PAID, AVERAGES OF ANNUAL PAY, AND INCREASE PER MAN.

GREAT LAKES AND ST. LAWRENCE RIVER.	Year.	Total number men making ordinary crews.	Total wages paid.	Average annual wages per man.	Average annual increase in wages per man.
Total	1880 1889	9,143 15,271	\$3,293,964 5,796,895	\$360.27 379.60	 \$19.33

TABLE 27.—TRAFFIC IN 1880 AND 1889—FREIGHT MOVED AND PASSENGERS CARRIED BY STEAMERS OPERATING ON THE GREAT LAKES AND ST. LAWRENCE RIVER IN 1880 AND 1889, AS REPORTED BY THE TENTH AND ELEVENTH CENSUSES.

GREAT LAKES AND ST. LAWRENCE RIVER.	Year.	Freight in tons.	PASSENGERS.		
			Total.	Regular and excursion.	Ferry.
Total	1880 1889	4,368,171 20,143,483	1,356,010 2,235,993	926,250 1,612,519	429,760 623,474

COMPARATIVE STATISTICS—Continued.

TABLE 28.—FLEETS FOR THE 10 YEARS, 1880-1889—NUMBER AND TONNAGE OF ALL STEAMERS, SAILING VESSELS, AND BARGES REGISTERED IN THE CUSTOMS DISTRICTS OF THE GREAT LAKES AND ST. LAWRENCE RIVER.

1880

CUSTOMS DISTRICTS.	TOTAL.		STEAMERS.		SAILING VESSELS.		BARGES.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total.....	2,487	552,341.59	912	209,465.06	1,415	302,264.70	160	40,611.83
Oswegatchie, New York.....	24	2,366.34	12	765.10	5	357.60	7	1,243.64
Cape Vincent, New York.....	54	5,280.77	19	647.24	35	4,633.53		
Oswego, New York.....	88	17,064.80	22	956.57	66	16,108.23		
Genesee, New York.....	22	3,116.82	12	1,977.15	10	1,139.67		
Niagara, New York.....	12	3,458.04	4	1,785.71	8	1,672.33		
Buffalo Creek, New York.....	219	101,256.76	115	57,958.44	77	36,876.68	27	6,421.64
Dunkirk, New York.....	4	643.92	2	36.81	2	607.11		
Erie, Pennsylvania.....	35	23,464.14	23	18,353.07	12	5,111.07		
Cuyahoga, Ohio.....	175	64,286.58	55	21,313.27	119	42,421.97	1	551.34
Sandusky, Ohio.....	83	14,164.74	28	4,743.25	53	9,008.15	2	413.34
Miami, Ohio.....	53	10,505.78	23	3,416.75	24	4,845.20	11	2,243.83
Detroit, Michigan.....	313	70,814.88	113	34,738.37	166	29,912.52	34	6,163.96
Huron, Michigan.....	303	51,613.36	104	18,362.99	130	12,875.37	69	20,375.00
Superior, Michigan.....	67	5,462.03	47	2,180.30	20	3,281.73		
Michigan, Michigan.....	296	34,305.51	129	15,144.51	154	16,035.53	13	3,125.47
Chicago, Illinois.....	384	76,478.02	109	9,949.75	275	66,528.27		
Milwaukee, Wisconsin.....	348	67,854.92	89	16,981.23	258	50,800.11	1	73.58
Duluth, Minnesota.....	7	204.18	6	154.55	1	49.63		

1881

Total.....	2,494	601,291.10	970	257,250.65	1,368	303,271.86	156	40,768.59
Oswegatchie, New York.....	27	2,799.91	12	823.73	7	620.27	8	1,355.91
Cape Vincent, New York.....	39	5,035.42	13	706.90	26	4,328.52		
Oswego, New York.....	76	14,266.37	25	1,035.66	51	13,230.71		
Genesee, New York.....	22	3,692.43	14	2,299.68	8	1,392.75		
Niagara, New York.....	11	3,323.63	4	1,510.96	7	1,812.67		
Buffalo Creek, New York.....	215	100,756.95	125	63,410.02	65	30,909.86	25	6,437.07
Dunkirk, New York.....	2	47.13	1	22.97	1	24.16		
Erie, Pennsylvania.....	39	28,326.50	27	23,624.27	12	4,702.23		
Cuyahoga, Ohio.....	181	75,548.27	65	33,019.16	112	40,961.71	4	1,567.40
Sandusky, Ohio.....	80	15,546.45	28	5,883.70	50	9,301.15	2	361.60
Miami, Ohio.....	49	15,337.65	26	7,329.58	18	6,104.61	5	1,903.46
Detroit, Michigan.....	303	77,699.11	121	39,608.63	159	33,574.14	23	4,516.34
Huron, Michigan.....	337	63,031.34	118	24,396.16	144	17,207.42	75	21,427.76
Superior, Michigan.....	79	9,136.86	50	3,632.01	29	5,504.85		
Michigan, Michigan.....	305	34,978.84	138	15,429.97	154	16,423.40	13	3,125.47
Chicago, Illinois.....	367	75,595.47	107	11,916.42	260	63,679.05		
Milwaukee, Wisconsin.....	353	75,919.65	89	22,430.43	263	53,415.64	1	73.58
Duluth, Minnesota.....	9	249.12	7	170.40	2	78.72		

1882

Total.....	2,610	642,127.88	1,082	288,967.60	1,371	311,111.26	157	42,049.02
Oswegatchie, New York.....	31	3,057.16	15	878.64	7	702.61	9	1,475.91
Cape Vincent, New York.....	55	4,378.51	20	746.95	34	3,596.16	1	35.40
Oswego, New York.....	70	13,213.09	24	1,030.09	46	12,183.00		
Genesee, New York.....	23	3,822.99	16	2,485.00	7	1,337.99		
Niagara, New York.....	16	4,130.77	8	2,306.00	8	1,824.77		
Buffalo Creek, New York.....	219	109,574.60	128	70,996.15	61	30,092.54	30	8,485.91
Dunkirk, New York.....	2	47.13	1	22.97	1	24.16		
Erie, Pennsylvania.....	43	29,609.38	31	24,793.73	12	4,815.65		
Cuyahoga, Ohio.....	187	81,328.89	70	36,621.45	112	42,841.38	5	1,866.06
Sandusky, Ohio.....	87	16,581.25	29	7,201.87	56	9,017.78	2	361.60
Miami, Ohio.....	47	15,012.59	28	7,503.25	15	5,829.94	4	1,679.40
Detroit, Michigan.....	312	82,933.86	136	43,600.49	155	34,949.65	21	4,383.72
Huron, Michigan.....	343	69,113.96	118	24,466.24	154	24,085.75	71	20,561.97
Superior, Michigan.....	89	12,799.40	58	6,975.83	31	5,823.57		
Michigan, Michigan.....	345	37,610.93	174	17,479.33	158	17,006.13	13	3,125.47
Chicago, Illinois.....	368	73,179.21	117	12,534.43	251	60,644.78		
Milwaukee, Wisconsin.....	362	85,447.11	100	29,116.85	261	56,256.68	1	73.58
Duluth, Minnesota.....	11	287.05	9	208.33	2	78.72		

TRANSPORTATION ON THE GREAT LAKES.

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COMPARATIVE STATISTICS—Continued.

TABLE 28.—FLEETS FOR THE 10 YEARS, 1880-1889, ETC.—Continued.

1883

CUSTOMS DISTRICTS.	TOTAL.		STEAMERS.		SAILING VESSELS.		BARGES.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total.....	2, 612	651, 792. 75	1, 130	301, 256. 87	1, 332	307, 734. 46	150	42, 801. 42
Oswegatchie, New York.....	23	2, 492. 99	13	814. 02	3	346. 06	7	1, 332. 91
Cape Vincent, New York.....	49	3, 465. 25	16	566. 36	32	2, 863. 49	1	35. 40
Oswego, New York.....	69	13, 312. 97	24	1, 123. 96	45	12, 189. 01		
Genesee, New York.....	24	3, 809. 71	17	2, 500. 60	7	1, 309. 11		
Niagara, New York.....	17	3, 676. 71	8	1, 511. 22	9	2, 165. 49		
Buffalo Creek, New York.....	215	116, 483. 40	127	77, 832. 61	59	30, 069. 50	29	8, 581. 29
Dunkirk, New York.....	1	24. 16			1	24. 16		
Erie, Pennsylvania.....	37	28, 513. 65	27	24, 737. 58	10	3, 776. 07		
Cuyahoga, Ohio.....	183	78, 251. 25	74	36, 197. 64	105	41, 033. 77	4	1, 019. 84
Sandusky, Ohio.....	83	18, 187. 99	33	7, 305. 69	48	10, 520. 70	2	361. 60
Miami, Ohio.....	48	15, 947. 55	27	7, 997. 65	17	6, 270. 50	4	1, 679. 40
Detroit, Michigan.....	309	88, 702. 02	145	49, 427. 40	153	36, 275. 85	11	2, 998. 77
Huron, Michigan.....	366	72, 304. 18	134	25, 802. 57	154	22, 908. 45	78	23, 593. 16
Superior, Michigan.....	90	16, 100. 82	58	7, 024. 66	32	9, 076. 16		
Michigan, Michigan.....	351	36, 763. 82	180	17, 289. 62	158	16, 348. 73	13	3, 125. 47
Chicago, Illinois.....	372	70, 979. 22	130	13, 433. 40	242	57, 545. 82		
Milwaukee, Wisconsin.....	365	82, 402. 25	107	27, 317. 08	257	55, 011. 59	1	73. 58
Duluth, Minnesota.....	10	374. 81	10	374. 81				

1884

Total.....	2, 558	657, 507. 36	1, 144	318, 962. 32	1, 294	305, 219. 52	120	33, 325. 52
Oswegatchie, New York.....	29	2, 688. 85	13	909. 82	7	394. 05	9	1, 384. 98
Cape Vincent, New York.....	50	3, 292. 91	19	690. 92	30	2, 566. 59	1	35. 40
Oswego, New York.....	66	12, 754. 83	21	1, 092. 64	45	11, 662. 19		
Genesee, New York.....	21	2, 533. 31	15	1, 241. 61	6	1, 291. 70		
Niagara, New York.....	16	3, 756. 96	7	1, 591. 47	8	1, 909. 23	1	256. 26
Buffalo Creek, New York.....	200	108, 199. 29	134	79, 918. 59	40	20, 659. 90	26	7, 620. 80
Dunkirk, New York.....	1	24. 16			1	24. 16		
Erie, Pennsylvania.....	36	28, 373. 37	27	24, 737. 58	9	3, 635. 79		
Cuyahoga, Ohio.....	184	87, 010. 15	78	43, 086. 39	104	43, 344. 18	2	579. 58
Sandusky, Ohio.....	83	22, 086. 58	34	7, 280. 01	47	14, 444. 97	2	361. 60
Miami, Ohio.....	52	17, 426. 56	28	8, 150. 85	20	7, 596. 31	4	1, 670. 40
Detroit, Michigan.....	309	93, 546. 94	144	54, 291. 00	154	36, 257. 17	11	2, 998. 77
Huron, Michigan.....	366	79, 210. 45	143	30, 220. 62	163	31, 361. 72	60	17, 628. 11
Superior, Michigan.....	93	16, 490. 50	61	7, 843. 65	32	8, 646. 85		
Michigan, Michigan.....	320	34, 039. 09	173	18, 673. 19	143	14, 585. 28	4	780. 62
Chicago, Illinois.....	366	68, 821. 93	129	13, 970. 78	237	54, 851. 15		
Milwaukee, Wisconsin.....	347	76, 403. 31	100	24, 503. 06	247	51, 900. 25		
Duluth, Minnesota.....	19	848. 17	18	760. 14	1	88. 03		

1885

Total.....	2, 540	672, 631. 47	1, 154	332, 365. 33	1, 282	310, 383. 47	104	29, 882. 67
Oswegatchie, New York.....	31	3, 497. 74	15	933. 60	4	538. 52	12	2, 025. 62
Cape Vincent, New York.....	52	4, 075. 85	21	1, 443. 57	31	2, 632. 28		
Oswego, New York.....	59	12, 952. 17	20	2, 286. 33	38	10, 464. 79	1	201. 05
Genesee, New York.....	18	2, 311. 54	12	1, 019. 84	6	1, 291. 70		
Niagara, New York.....	18	4, 440. 30	7	1, 591. 47	11	2, 848. 83		
Buffalo Creek, New York.....	199	110, 761. 44	132	82, 100. 94	39	19, 809. 92	28	8, 850. 58
Dunkirk, New York.....	1	24. 16			1	24. 16		
Erie, Pennsylvania.....	39	28, 491. 04	29	24, 714. 97	10	3, 776. 07		
Cuyahoga, Ohio.....	183	92, 640. 52	81	48, 900. 43	101	43, 537. 04	1	203. 05
Sandusky, Ohio.....	77	21, 842. 07	31	7, 310. 29	45	14, 242. 38	1	289. 40
Miami, Ohio.....	54	17, 405. 17	30	7, 684. 54	20	8, 041. 23	4	1, 679. 40
Detroit, Michigan.....	302	93, 718. 70	138	52, 744. 83	154	38, 198. 34	10	2, 775. 53
Huron, Michigan.....	362	83, 742. 69	141	32, 831. 20	179	37, 943. 77	42	12, 967. 72
Superior, Michigan.....	91	16, 246. 60	63	8, 033. 86	28	8, 212. 74		
Michigan, Michigan.....	316	32, 683. 25	169	17, 249. 26	143	14, 653. 37	4	780. 62
Chicago, Illinois.....	361	67, 486. 98	135	15, 040. 76	226	52, 446. 22		
Milwaukee, Wisconsin.....	355	79, 358. 84	110	27, 724. 76	245	51, 634. 08		
Duluth, Minnesota.....	22	952. 41	20	754. 68	1	88. 03	1	109. 70

STATISTICS OF TRANSPORTATION.

COMPARATIVE STATISTICS—Continued.

TABLE 28.—FLEETS FOR THE 10 YEARS, 1880-1889, ETC.—Continued.

1886

CUSTOMS DISTRICTS.	TOTAL.		STEAMERS.		SAILING VESSELS.		BARGES.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total.....	2,547	683,154.43	1,258	378,376.16	1,195	279,573.84	94	25,204.43
Oswegatchie, New York.....	41	5,150.92	17	1,058.73	9	939.77	15	3,152.42
Cape Vincent, New York.....	51	4,040.56	20	1,410.71	31	2,629.85	.....	.....
Oswego, New York.....	54	11,421.61	19	1,897.57	34	9,322.99	1	201.05
Genesee, New York.....	17	2,022.82	12	1,034.63	5	988.19	.....	.....
Niagara, New York.....	18	4,505.58	7	1,469.99	11	3,035.59	.....	.....
Buffalo Creek, New York.....	193	103,745.43	132	78,954.00	36	18,312.87	25	6,478.56
Dunkirk, New York.....	1	24.16	.....	.....	1	24.16	.....	.....
Erie, Pennsylvania.....	37	28,141.97	29	24,720.63	8	3,421.34	.....	.....
Cuyahoga, Ohio.....	194	101,492.56	85	54,792.13	108	46,327.55	1	372.88
Sandusky, Ohio.....	82	24,019.61	36	9,319.60	45	14,410.11	1	289.90
Miami, Ohio.....	57	17,862.90	30	6,710.48	23	9,473.02	4	1,679.40
Detroit, Michigan.....	305	100,146.34	140	55,879.98	154	41,407.48	11	2,858.88
Huron, Michigan.....	357	86,292.25	138	34,273.37	188	42,737.86	31	9,281.02
Superior, Michigan.....	102	15,807.16	76	9,537.84	26	6,269.32	.....	.....
Michigan, Michigan.....	312	31,875.68	171	17,157.75	137	13,937.31	4	780.62
Chicago, Illinois.....	352	66,730.22	216	51,010.77	136	15,719.45	.....	.....
Milwaukee, Wisconsin.....	352	79,052.32	110	28,523.37	242	50,528.95	.....	.....
Duluth, Minnesota.....	22	822.34	20	624.61	1	88.03	1	109.70

1887

Total.....	2,541	721,307.70	1,207	387,209.01	1,252	312,667.22	82	21,431.47
Oswegatchie, New York.....	44	10,069.70	20	6,235.71	8	659.22	16	3,174.77
Cape Vincent, New York.....	52	4,081.67	20	1,414.26	32	2,667.41	.....	.....
Oswego, New York.....	44	9,625.82	18	1,839.07	26	7,786.75	.....	.....
Genesee, New York.....	21	2,469.32	16	1,481.13	5	988.19	.....	.....
Niagara, New York.....	14	3,978.16	5	1,694.14	9	2,284.02	.....	.....
Buffalo Creek, New York.....	192	93,112.41	139	72,919.14	28	13,845.44	25	6,347.83
Dunkirk, New York.....	2	47.66	1	23.50	1	24.16	.....	.....
Erie, Pennsylvania.....	35	30,482.92	29	27,678.98	6	2,803.94	.....	.....
Cuyahoga, Ohio.....	205	123,888.58	93	70,720.70	111	52,795.00	1	372.88
Sandusky, Ohio.....	76	24,023.70	37	10,415.42	38	13,318.88	1	289.40
Miami, Ohio.....	63	17,900.27	32	7,877.68	27	8,343.19	4	1,679.40
Detroit, Michigan.....	285	103,032.26	137	58,893.89	140	42,012.43	11	2,125.94
Huron, Michigan.....	377	102,072.44	145	44,594.32	209	50,718.56	23	6,759.56
Superior, Michigan.....	105	17,091.61	78	10,287.61	27	6,804.00	.....	.....
Michigan, Michigan.....	300	29,761.36	168	16,628.74	129	12,560.63	3	571.99
Chicago, Illinois.....	356	72,420.05	137	22,605.98	219	49,814.07	.....	.....
Milwaukee, Wisconsin.....	350	76,515.28	114	31,361.98	236	45,153.30	.....	.....
Duluth, Minnesota.....	20	734.49	18	536.76	1	88.03	1	109.70

1888

Total.....	2,641	806,189.10	1,323	476,035.74	1,242	312,285.94	76	17,867.42
Oswegatchie, New York.....	47	11,225.71	21	6,083.49	9	1,328.08	17	3,214.14
Cape Vincent, New York.....	50	4,581.85	24	1,567.30	34	3,014.55	.....	.....
Oswego, New York.....	41	7,481.47	19	1,842.40	22	5,639.07	.....	.....
Genesee, New York.....	20	2,717.03	15	1,571.73	11	755.49	1	389.81
Niagara, New York.....	18	4,554.60	9	2,270.58	11	2,284.02	.....	.....
Buffalo Creek, New York.....	211	114,405.77	164	95,968.36	25	13,243.27	22	5,189.14
Dunkirk, New York.....	1	24.16	.....	.....	1	24.16	.....	.....
Erie, Pennsylvania.....	34	27,749.22	30	25,989.47	4	1,759.75	.....	.....
Cuyahoga, Ohio.....	221	147,589.39	117	95,527.66	103	51,688.85	1	372.88
Sandusky, Ohio.....	79	27,443.61	44	14,933.09	34	12,221.12	1	289.40
Miami, Ohio.....	64	18,755.39	34	7,959.87	28	10,482.97	2	312.55
Detroit, Michigan.....	292	113,920.50	146	70,963.84	140	42,285.88	6	670.78
Huron, Michigan.....	393	113,413.54	153	49,377.62	219	57,717.19	21	6,318.73
Superior, Michigan.....	120	21,668.43	84	12,951.08	36	8,717.35	.....	.....
Michigan, Michigan.....	295	27,747.62	169	15,756.66	123	11,418.97	3	571.99
Chicago, Illinois.....	345	74,226.75	144	28,453.90	201	45,772.85	.....	.....
Milwaukee, Wisconsin.....	374	86,851.99	125	43,012.65	249	43,839.84	.....	.....
Duluth, Minnesota.....	28	1,832.07	25	1,206.04	1	88.03	2	538.00

COMPARATIVE STATISTICS—Continued.

TABLE 28.—FLEETS FOR THE 10 YEARS, 1880-1889, ETC.—Continued.

1889

CUSTOMS DISTRICTS.	TOTAL.		STEAMERS.		SAILING VESSELS.		BARGES.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total	2, 737	900, 846. 75	1, 436	571, 204. 78	1, 251	322, 694. 29	50	6, 947. 68
Oswegatchie, New York	53	13, 251. 25	21	7, 767. 11	9	2, 538. 64	23	2, 945. 50
Cape Vincent, New York	59	4, 451. 67	24	1, 683. 96	34	2, 694. 35	1	73. 36
Oswego, New York	36	8, 420. 30	19	3, 582. 18	17	4, 838. 12	.....	.....
Genesee, New York	24	3, 779. 69	16	1, 769. 31	8	2, 010. 38	.....	.....
Niagara, New York	17	5, 724. 32	8	3, 440. 30	9	2, 284. 02	.....	.....
Buffalo Creek, New York	227	127, 379. 04	183	109, 439. 62	34	17, 024. 34	10	915. 08
Dunkirk, New York	4	508. 30	3	484. 14	1	24. 16	.....	.....
Erie, Pennsylvania	38	29, 374. 58	34	28, 063. 24	4	1, 311. 34	.....	.....
Cuyahoga, Ohio	241	176, 804. 22	132	119, 293. 27	106	56, 785. 99	3	724. 96
Sandusky, Ohio	82	30, 579. 75	49	16, 691. 69	33	13, 888. 06	.....	.....
Miami, Ohio	59	16, 563. 90	36	9, 497. 00	23	7, 066. 90	.....	.....
Detroit, Michigan	281	127, 430. 66	149	87, 003. 48	125	39, 338. 72	7	1, 088. 46
Huron, Michigan	450	131, 632. 10	186	60, 109. 41	263	71, 432. 36	1	90. 33
Superior, Michigan	122	30, 345. 42	90	22, 850. 82	32	7, 494. 60	.....	.....
Michigan, Michigan	304	30, 381. 58	178	18, 157. 52	123	11, 652. 07	3	571. 99
Chicago, Illinois	342	73, 528. 81	151	28, 897. 39	191	44, 631. 42	.....	.....
Milwaukee, Wisconsin	369	88, 753. 12	131	51, 162. 33	238	37, 590. 79	.....	.....
Duluth, Minnesota	29	1, 938. 04	26	1, 312. 01	1	88. 03	2	538. 00

RECAPITULATION.

YEARS.	TOTAL.		STEAMERS.		SAILING VESSELS.		BARGES.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total for 10 years	25, 767	6, 889, 190. 13	11, 616	3, 521, 093. 52	13, 002	3, 067, 206. 56	1, 149	300, 890. 05
1880	2, 487	552, 341. 59	912	209, 465. 06	1, 415	302, 264. 70	160	40, 611. 83
1881	2, 494	601, 291. 10	970	257, 250. 65	1, 368	303, 271. 86	156	40, 768. 59
1882	2, 610	642, 127. 88	1, 082	288, 967. 60	1, 371	311, 111. 26	157	42, 049. 02
1883	2, 612	651, 792. 75	1, 130	301, 256. 87	1, 332	307, 734. 46	150	42, 801. 42
1884	2, 558	657, 507. 36	1, 144	318, 962. 32	1, 294	305, 219. 52	120	33, 325. 52
1885	2, 540	672, 631. 47	1, 154	322, 365. 33	1, 282	310, 383. 47	104	29, 882. 67
1886	2, 547	683, 154. 43	1, 258	378, 376. 16	1, 195	279, 573. 84	94	25, 204. 43
1887	2, 541	721, 307. 70	1, 207	387, 209. 01	1, 252	312, 667. 22	82	21, 431. 47
1888	2, 641	806, 189. 10	1, 323	476, 035. 74	1, 242	312, 285. 94	76	17, 867. 42
1889	2, 737	900, 846. 75	1, 436	571, 204. 78	1, 251	322, 694. 29	50	6, 947. 68

STATISTICS OF TRANSPORTATION.

COMPARATIVE STATISTICS—Continued.

TABLE 29.—TONNAGES FOR THE 10 YEARS, 1880-1889—NUMBER, AGGREGATE, AND AVERAGE TONNAGE OF ALL CRAFT REGISTERED AT THE CUSTOMS DISTRICTS OF THE GREAT LAKES AND ST. LAWRENCE RIVER.

STEAMERS.

CUSTOMS DISTRICTS.	1880			1881			1882			1883			1884		
	Num-ber.	Tonnage.	Aver-age.	Num-ber.	Tonnage.	Aver-age.	Num-ber.	Tonnage.	Aver-age.	Num-ber.	Tonnage.	Aver-age.	Num-ber.	Tonnage.	Aver-age.
Oswegatchie, New York.....	12	765	64	12	824	69	15	879	59	13	814	63	13	910	70
Cape Vincent, New York.....	19	647	34	13	707	54	20	747	37	16	566	35	19	691	36
Oswego, New York.....	22	957	44	25	1,036	41	24	1,030	43	24	1,124	47	21	1,093	52
Genesee, New York.....	12	1,977	165	14	2,300	164	16	2,485	155	17	2,501	147	15	1,242	83
Niagara, New York.....	4	1,786	447	4	1,511	378	8	2,306	288	8	1,511	189	7	1,591	227
Buffalo Creek, New York.....	115	57,958	504	125	63,410	507	128	70,996	555	127	77,833	613	134	79,919	596
Dunkirk, New York.....	2	37	19	1	23	23	1	23	23	27	24,738	916	27	24,738	916
Erie, Pennsylvania.....	23	18,353	798	27	23,824	875	31	24,794	800	74	36,198	489	78	43,086	552
Cuyahoga, Ohio.....	55	21,313	388	65	33,019	508	70	36,621	523	33	7,306	221	34	7,280	214
Sandusky, Ohio.....	28	4,743	169	28	5,884	210	29	7,202	248	27	7,998	296	28	8,151	291
Miami, Ohio.....	23	3,417	149	26	7,330	282	28	7,503	268	145	49,427	341	144	54,291	377
Detroit, Michigan.....	113	34,738	307	121	39,609	327	136	43,600	321	134	25,803	193	143	30,221	211
Huron, Michigan.....	104	18,363	177	118	24,396	207	118	24,466	207	58	7,025	121	61	7,844	129
Superior, Michigan.....	47	2,180	46	50	3,632	73	58	6,976	120	180	17,290	96	173	18,673	108
Michigan, Michigan.....	129	15,145	117	138	15,430	112	174	17,479	100	130	13,433	103	129	13,971	108
Chicago, Illinois.....	109	9,950	91	107	11,916	111	117	12,534	107	107	27,317	255	100	24,503	245
Milwaukee, Wisconsin.....	89	16,981	191	89	22,430	252	100	29,117	291	10	375	38	18	760	49
Duluth, Minnesota.....	6	155	26	7	170	24	9	208	23						

CUSTOMS DISTRICTS.	1885			1886			1887			1888			1889		
	Num-ber.	Tonnage.	Aver-age.	Num-ber.	Tonnage.	Aver-age.	Num-ber.	Tonnage.	Aver-age.	Num-ber.	Tonnage.	Aver-age.	Num-ber.	Tonnage.	Aver-age.
Oswegatchie, New York.....	15	934	62	17	1,059	62	20	6,236	312	21	6,683	318	21	7,767	370
Cape Vincent, New York.....	21	1,444	69	20	1,411	71	20	1,414	71	24	1,567	65	24	1,684	70
Oswego, New York.....	20	2,286	114	19	1,898	100	18	1,839	102	19	1,842	97	19	3,582	189
Genesee, New York.....	12	1,020	85	12	1,035	86	16	1,481	93	15	1,572	105	16	1,769	111
Niagara, New York.....	7	1,591	227	7	1,470	210	5	1,694	339	9	2,271	252	8	3,440	430
Buffalo Creek, New York.....	132	82,101	622	132	73,954	598	139	72,919	525	164	95,968	585	183	109,440	598
Dunkirk, New York.....	29	24,715	852	29	24,721	852	29	27,679	954	30	25,989	866	34	28,063	825
Erie, Pennsylvania.....	81	48,900	604	85	54,792	645	93	70,721	760	117	95,528	816	132	119,293	904
Cuyahoga, Ohio.....	31	7,810	236	36	9,320	259	37	10,415	281	44	14,933	339	49	16,692	341
Miami, Ohio.....	30	7,685	256	30	6,710	224	32	7,878	246	34	7,960	234	36	9,497	264
Detroit, Michigan.....	138	52,745	382	140	55,880	399	137	58,894	430	146	70,964	486	149	87,003	584
Huron, Michigan.....	141	32,831	233	138	34,273	248	145	44,594	308	153	49,378	323	186	60,109	323
Superior, Michigan.....	63	8,034	128	76	9,598	126	78	10,288	132	84	12,951	154	90	22,851	254
Michigan, Michigan.....	169	17,249	102	171	17,158	100	168	16,629	99	169	15,757	93	178	18,158	102
Chicago, Illinois.....	135	15,041	111	216	51,011	236	137	22,606	166	144	28,454	198	151	28,897	191
Milwaukee, Wisconsin.....	110	27,725	252	110	28,522	259	114	31,362	275	125	43,013	344	131	51,162	391
Duluth, Minnesota.....	20	755	38	20	625	31	18	537	30	25	1,206	48	20	1,312	50

SAILING VESSELS.

CUSTOMS DISTRICTS.	1880			1881			1882			1883			1884		
	Num-ber.	Tonnage.	Aver-age.	Num-ber.	Tonnage.	Aver-age.	Num-ber.	Tonnage.	Aver-age.	Num-ber.	Tonnage.	Aver-age.	Num-ber.	Tonnage.	Aver-age.
Oswegatchie, New York.....	5	358	72	7	620	89	7	703	100	3	346	115	7	394	56
Cape Vincent, New York.....	35	4,634	132	26	4,329	167	34	3,596	106	32	2,863	89	30	2,567	86
Oswego, New York.....	66	16,108	244	51	13,231	259	46	12,183	265	45	12,189	271	45	11,662	259
Genesee, New York.....	10	1,140	114	8	1,393	174	7	1,338	191	7	1,309	187	6	1,292	215
Niagara, New York.....	8	1,672	209	7	1,813	259	8	1,825	228	9	2,165	241	8	1,909	239
Buffalo Creek, New York.....	77	36,877	479	65	30,910	476	61	30,093	493	59	30,070	510	40	20,660	517
Dunkirk, New York.....	2	607	304	1	24	24	1	24	24	1	24	24	1	24	24
Erie, Pennsylvania.....	17	5,111	426	12	4,702	392	12	4,816	401	10	3,776	378	11	3,636	404
Cuyahoga, Ohio.....	119	42,422	356	112	40,962	366	112	42,841	383	105	41,034	391	104	43,344	417
Sandusky, Ohio.....	53	9,008	170	50	9,301	186	56	9,018	161	48	10,521	219	47	14,445	307
Miami, Ohio.....	24	4,845	202	18	6,105	339	15	5,830	389	17	6,271	369	20	7,596	380
Detroit, Michigan.....	166	29,913	180	159	33,574	211	155	34,950	225	153	36,276	237	154	36,257	235
Huron, Michigan.....	130	12,875	99	144	17,207	119	154	21,086	156	154	22,908	149	163	31,362	192
Superior, Michigan.....	20	3,282	164	29	5,505	190	31	5,824	188	32	9,076	284	32	8,647	270
Michigan, Michigan.....	154	16,036	104	154	16,423	107	158	17,006	108	158	16,349	103	143	14,585	102
Chicago, Illinois.....	275	66,528	242	260	63,679	245	251	60,645	242	242	57,546	238	237	54,851	231
Milwaukee, Wisconsin.....	258	50,800	197	263	53,416	203	261	56,257	216	257	55,012	214	247	51,900	210
Duluth, Minnesota.....	1	50	50	2	79	40	2	79	40				1	88	88

TRANSPORTATION ON THE GREAT LAKES.

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COMPARATIVE STATISTICS—Continued.

TABLE 29.—TONNAGES FOR THE 10 YEARS, 1880-1889—Continued.

SAILING VESSELS—Continued.

CUSTOMS DISTRICTS.	1885			1886			1887			1888			1889		
	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.
Oswegatchie, New York.....	4	539	135	9	940	104	8	659	82	9	1,328	148	9	2,539	282
Cape Vincent, New York.....	31	2,632	85	31	2,630	85	32	2,667	83	34	3,015	89	34	2,694	79
Oswego, New York.....	38	10,465	275	34	9,323	274	26	7,787	300	22	5,639	256	17	4,838	285
Genesee, New York.....	6	1,292	215	5	988	198	5	888	198	4	755	189	8	2,010	251
Niagara, New York.....	11	2,849	259	11	3,036	276	9	2,284	254	9	2,284	254	9	2,284	254
Buffalo Creek, New York.....	39	19,810	508	36	18,313	509	28	13,845	494	25	13,248	530	34	17,024	501
Dunkirk, New York.....	1	24	24	1	24	24	1	24	24	1	24	24	1	24	24
Erie, Pennsylvania.....	10	3,776	378	8	3,421	428	6	2,804	467	4	1,760	440	4	1,311	328
Cuyahoga, Ohio.....	101	43,537	431	108	46,328	429	111	52,795	476	103	51,689	502	106	56,786	536
Sandusky, Ohio.....	45	14,242	316	45	14,410	320	38	13,319	351	34	12,221	359	33	13,888	421
Miami, Ohio.....	20	8,041	402	23	9,473	412	27	8,343	309	28	10,483	374	23	7,067	307
Detroit, Michigan.....	154	38,198	248	154	41,407	269	140	42,012	300	140	42,286	302	125	39,339	315
Huron, Michigan.....	179	37,944	212	188	42,738	227	209	50,719	243	219	57,717	264	263	71,432	272
Superior, Michigan.....	28	8,213	293	26	6,269	241	27	6,804	252	36	8,717	242	32	7,495	234
Michigan, Michigan.....	143	14,653	102	137	13,937	102	129	12,561	97	123	11,419	93	123	11,652	95
Chicago, Illinois.....	226	52,446	232	136	15,719	116	219	49,814	227	201	45,773	228	191	44,631	234
Milwaukee, Wisconsin.....	245	51,634	211	242	50,529	209	236	45,153	191	219	43,839	176	238	37,591	158
Duluth, Minnesota.....	1	88	88	1	88	88	1	88	88	1	88	88	1	88	88

BARGES.

CUSTOMS DISTRICTS.	1880			1881			1882			1883			1884		
	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.
Oswegatchie, New York.....	7	1,244	178	8	1,356	170	9	1,476	164	7	1,333	190	9	1,385	154
Cape Vincent, New York.....							1	35	35	1	35	35	1	35	35
Oswego, New York.....															
Genesee, New York.....													1	256	256
Niagara, New York.....															
Buffalo Creek, New York.....	27	6,422	238	25	6,437	257	30	8,486	283	29	8,581	296	26	7,621	293
Dunkirk, New York.....															
Erie, Pennsylvania.....															
Cuyahoga, Ohio.....	1	551	551	4	1,567	392	5	1,866	373	4	1,020	255	2	580	290
Sandusky, Ohio.....	2	413	207	2	362	181	2	362	181	2	362	181	2	362	181
Miami, Ohio.....	6	2,244	374	5	1,903	381	4	1,679	420	4	1,679	420	4	1,679	420
Detroit, Michigan.....	34	6,164	181	23	4,516	196	21	4,384	209	11	2,999	273	11	2,999	273
Huron, Michigan.....	69	20,375	295	75	21,428	286	71	20,562	290	78	23,593	302	60	17,628	294
Superior, Michigan.....															
Michigan, Michigan.....	13	3,125	240	13	3,125	240	13	3,125	240	13	3,125	240	4	781	195
Chicago, Illinois.....															
Milwaukee, Wisconsin.....	1	74	74	1	74	74	1	74	74	1	74	74			
Duluth, Minnesota.....															

CUSTOMS DISTRICTS.	1885			1886			1887			1888			1889		
	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.
Oswegatchie, New York.....	12	2,026	169	15	3,152	210	16	3,175	198	17	3,214	189	23	2,946	128
Cape Vincent, New York.....													1	73	73
Oswego, New York.....	1	201	201	1	201	201				1	390	390			
Genesee, New York.....															
Niagara, New York.....															
Buffalo Creek, New York.....	28	8,851	316	25	6,479	259	25	6,348	254	22	5,189	236	10	915	92
Dunkirk, New York.....															
Erie, Pennsylvania.....															
Cuyahoga, Ohio.....	1	203	203	1	373	373	1	373	373	1	373	373	3	725	242
Sandusky, Ohio.....	1	289	289	1	290	290	1	289	289	1	289	289			
Miami, Ohio.....	4	1,679	420	4	1,679	420	4	1,679	420	2	313	157			
Detroit, Michigan.....	10	2,776	278	11	2,859	260	8	2,126	266	6	671	112	7	1,088	155
Huron, Michigan.....	42	12,968	309	31	9,281	299	23	6,760	294	21	6,319	301	1	90	90
Superior, Michigan.....															
Michigan, Michigan.....	4	781	195	4	781	195	3	572	191	3	572	191	3	572	191
Chicago, Illinois.....															
Milwaukee, Wisconsin.....															
Duluth, Minnesota.....	1	110	110	1	110	110	1	110	110	2	538	269	2	538	269

STATISTICS OF TRANSPORTATION.

COMPARATIVE STATISTICS—Continued.

TABLE 29.—TONNAGES FOR THE 10 YEARS, 1880-1889—Continued.

ALL CRAFT.

CUSTOMS DISTRICTS.	1880			1881			1882			1883			1884		
	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.
Oswegatchie, New York.....	24	2,367	99	27	2,800	104	31	3,058	99	23	2,493	108	29	2,689	93
Cape Vincent, New York.....	54	5,281	98	39	5,036	129	55	4,378	80	49	3,464	71	50	3,293	66
Oswego, New York.....	88	17,065	194	76	14,267	188	70	13,213	189	69	13,313	193	66	12,755	193
Genesee, New York.....	22	3,117	142	22	3,693	163	23	3,823	166	24	3,810	159	21	2,534	121
Niagara, New York.....	12	3,458	288	11	3,324	302	16	4,131	258	17	3,676	216	16	3,756	235
Buffalo Creek, New York.....	219	101,257	462	215	100,757	469	219	109,575	500	215	116,484	542	200	108,200	541
Dunkirk, New York.....	4	644	161	2	47	24	2	47	24	1	24	24	1	24	24
Erie, Pennsylvania.....	35	23,464	670	39	28,326	726	43	29,610	689	37	28,514	771	36	28,374	788
Cuyahoga, Ohio.....	175	64,286	367	181	75,548	417	187	81,328	435	183	78,252	428	184	87,010	473
Sandusky, Ohio.....	83	14,164	171	80	15,547	194	87	16,582	191	83	18,189	219	83	22,087	266
Miami, Ohio.....	53	10,506	198	49	15,338	313	47	15,012	319	48	15,948	332	52	17,426	335
Detroit, Michigan.....	313	70,815	226	303	77,699	256	312	82,934	266	309	88,702	287	309	93,547	303
Huron, Michigan.....	303	51,613	170	337	63,031	187	343	69,114	201	366	72,304	198	366	79,211	216
Superior, Michigan.....	67	5,462	82	79	9,137	116	89	12,800	144	90	16,101	179	93	16,491	177
Michigan, Michigan.....	295	34,306	116	305	34,978	115	345	37,610	109	351	36,764	105	320	34,039	106
Chicago, Illinois.....	384	76,478	199	367	75,595	206	368	73,179	199	372	70,979	191	366	68,822	188
Milwaukee, Wisconsin.....	348	67,855	195	353	75,920	215	362	85,448	236	365	82,403	226	347	76,403	220
Duluth, Minnesota.....	7	205	29	9	249	28	11	287	26	10	375	38	10	848	45

CUSTOMS DISTRICTS.	1885			1886			1887			1888			1889		
	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.
Oswegatchie, New York.....	31	3,499	113	41	5,151	126	44	10,070	229	47	11,225	239	53	13,252	250
Cape Vincent, New York.....	52	4,076	78	51	4,041	79	52	4,081	78	58	4,582	79	59	4,451	75
Oswego, New York.....	59	12,952	220	54	11,422	212	44	9,626	219	41	7,481	182	36	8,420	234
Genesee, New York.....	18	2,312	128	17	2,023	119	21	2,469	118	20	2,717	136	24	3,779	157
Niagara, New York.....	18	4,440	247	18	4,506	250	14	3,978	284	18	4,555	253	17	5,724	337
Buffalo Creek, New York.....	199	110,762	557	193	103,746	538	192	93,112	485	211	114,405	542	227	127,379	561
Dunkirk, New York.....	1	24	24	1	24	24	2	48	24	1	24	24	4	508	127
Erie, Pennsylvania.....	39	28,491	731	37	28,142	761	35	30,463	871	34	27,749	816	38	29,374	773
Cuyahoga, Ohio.....	183	92,640	506	194	101,493	523	205	123,889	604	221	147,590	668	241	176,804	734
Sandusky, Ohio.....	77	21,841	284	82	24,020	293	76	24,023	316	79	27,443	347	82	30,580	373
Miami, Ohio.....	54	17,405	322	57	17,862	313	63	17,900	284	64	18,756	293	59	16,564	281
Detroit, Michigan.....	302	93,719	310	305	100,146	328	285	103,032	362	292	113,921	390	281	127,430	453
Huron, Michigan.....	362	83,743	231	357	86,292	242	377	102,073	271	393	113,414	289	450	131,631	293
Superior, Michigan.....	91	16,247	179	102	15,807	155	105	17,092	163	120	21,668	181	122	30,346	249
Michigan, Michigan.....	316	32,683	103	312	31,876	102	300	29,762	99	295	27,748	94	304	30,382	100
Chicago, Illinois.....	361	67,487	187	352	66,730	190	356	72,420	203	345	74,227	215	342	73,528	215
Milwaukee, Wisconsin.....	355	79,359	224	352	79,052	225	350	76,515	219	374	86,352	232	369	88,753	241
Duluth, Minnesota.....	22	953	43	22	823	37	20	735	37	28	1,832	65	29	1,938	67

COMPARATIVE STATISTICS—Continued.

TABLE 30.—TONNAGE FLUCTUATIONS FOR THE 10 YEARS, 1880-1889—AVERAGE ANNUAL NUMBER AND TONNAGE OF ALL CRAFT REGISTERED AT THE CUSTOMS DISTRICTS OF THE GREAT LAKES AND ST. LAWRENCE RIVER, TOGETHER WITH THE INDICATED YEARS OF HIGHEST, LOWEST, AND MEAN REGISTRATION.

STEAMERS.

CUSTOMS DISTRICTS.	Annual average number of vessels registered.	HIGHEST ABOVE AVERAGE.		LOWEST BELOW AVERAGE.		CLOSEST TO AVERAGE.		Fluctuation.	Annual average registered tonnage.	HIGHEST ABOVE AVERAGE.		LOWEST BELOW AVERAGE.		CLOSEST TO AVERAGE.		Fluctuation.
		Year.	Number.	Year.	Number.	Year.	Number.			Year.	Number of tons.	Year.	Number of tons.	Year.	Number of tons.	
Oswegatchie, New York.....	16	1889	21	1880	12	1882	15	9	2,687	1889	7,767	1880	765	1886	1,059	7,002
Cape Vincent, New York.....	20	1889	24	1881	13	1886	20	11	1,088	1889	1,684	1883	566	1886	1,411	1,118
Oswego, New York.....	21	1881	25	1887	18	1884	21	7	1,669	1889	3,582	1880	957	1887	1,839	2,625
Genesee, New York.....	15	1883	17	1885	12	1881	14	5	1,738	1883	2,501	1885	1,020	1889	1,769	1,481
Niagara, New York.....	7	1888	9	1880	4	1884	7	5	1,917	1889	3,440	1886	1,470	1880	1,786	1,970
Buffalo Creek, New York.....	138	1889	183	1880	115	1887	139	68	78,950	1889	109,440	1880	57,958	1886	78,954	51,482
Dunkirk, New York.....	2	1889	3	1881	1	1880	2	2	118	1889	484	1881	23	1880	37	461
Erie, Pennsylvania.....	29	1889	34	1880	23	1885	29	11	24,741	1889	28,063	1880	13,353	1884	24,738	9,710
Cuyahoga, Ohio.....	85	1889	132	1880	55	1886	85	77	55,947	1889	119,293	1880	21,313	1886	54,792	97,980
Sandusky, Ohio.....	35	1889	49	1880	28	1884	34	21	9,109	1889	16,692	1880	4,743	1886	9,320	11,949
Miami, Ohio.....	29	1889	36	1880	23	1882	28	13	7,413	1889	9,497	1880	3,417	1881	7,330	6,080
Detroit, Michigan.....	137	1889	149	1880	113	1887	137	36	54,715	1889	87,003	1880	34,738	1884	54,291	52,265
Huron, Michigan.....	138	1889	186	1880	104	1886	138	82	34,443	1889	60,109	1880	18,363	1886	34,273	41,746
Superior, Michigan.....	67	1889	90	1880	47	1885	63	43	9,132	1889	22,851	1880	2,180	1886	9,538	20,671
Michigan, Michigan.....	165	1883	180	1880	129	1887	168	51	16,897	1884	18,673	1880	15,145	1886	17,158	3,528
Chicago, Illinois.....	138	1886	216	1881	107	1887	137	109	20,781	1886	51,011	1880	9,950	1887	22,606	41,061
Milwaukee, Wisconsin.....	108	1889	131	1880	89	1883	107	42	30,213	1889	51,162	1880	16,981	1882	29,117	34,181
Duluth, Minnesota.....	16	1889	26	1880	6	1887	18	20	610	1889	1,812	1880	155	1886	625	1,157

SAILING VESSELS.

Oswegatchie, New York.....	7	1889	9	1883	5	1881	7	6	843	1889	2,539	1883	346	1886	940	2,193
Cape Vincent, New York.....	32	1880	35	1881	26	1883	32	9	3,163	1880	4,634	1884	2,567	1888	3,015	2,067
Oswego, New York.....	39	1880	66	1889	17	1885	38	49	10,342	1880	16,108	1889	4,838	1885	10,465	11,270
Genesee, New York.....	7	1880	10	1888	4	1882	7	6	1,251	1889	2,010	1888	756	1884	1,292	1,254
Niagara, New York.....	8	1886	11	1881	7	1887	9	4	2,212	1886	3,036	1880	1,672	1887	2,284	1,364
Buffalo Creek, New York.....	46	1880	77	1888	25	1884	40	52	23,085	1880	36,877	1888	13,248	1884	20,660	23,629
Dunkirk, New York.....	1	1880	2	1889	1	1885	1	1	82	1880	607	1889	24	1885	24	583
Erie, Pennsylvania.....	9	1880	12	1889	4	1884	9	8	3,511	1880	5,111	1889	1,811	1886	3,421	3,800
Cuyahoga, Ohio.....	108	1880	119	1885	101	1886	108	18	46,174	1889	56,786	1881	40,962	1886	46,328	15,824
Sandusky, Ohio.....	45	1882	56	1889	33	1885	45	23	12,037	1884	14,445	1880	9,008	1888	12,221	5,437
Miami, Ohio.....	21	1888	28	1882	15	1884	20	13	7,405	1888	10,483	1880	4,845	1884	7,596	5,638
Detroit, Michigan.....	150	1880	166	1889	125	1883	153	41	37,421	1888	42,286	1880	29,912	1885	38,198	12,374
Huron, Michigan.....	180	1889	263	1880	130	1885	179	133	36,899	1889	71,432	1880	12,875	1885	37,944	58,557
Superior, Michigan.....	29	1888	36	1880	20	1881	29	16	6,983	1888	8,717	1880	3,282	1887	6,804	5,435
Michigan, Michigan.....	142	1882	158	1888	123	1884	143	35	14,462	1882	17,006	1888	11,419	1884	14,585	5,587
Chicago, Illinois.....	224	1880	275	1886	136	1885	226	139	51,163	1880	66,528	1886	15,719	1885	52,446	50,809
Milwaukee, Wisconsin.....	250	1881	263	1887	236	1888	249	27	49,613	1882	56,256	1889	37,591	1880	50,800	18,665
Duluth, Minnesota.....	1	1881	2	1880	1	1886	1	1	82	1889	88	1880	50	1882	79	38

BARGES.

Oswegatchie, New York.....	12	1889	23	1880	7	1885	12	15	2,131	1888	3,214	1880	1,244	1885	2,026	1,970
Cape Vincent, New York.....	1	.....	.....	.....	.....	.....	.....	.....	45	1889	73	1880	35	1884	35	38
Oswego, New York.....	1	.....	.....	.....	.....	.....	.....	.....	201	.....	.....	.....	.....	.....	.....	.....
Genesee, New York.....	1	.....	.....	.....	.....	.....	.....	.....	390	.....	.....	.....	.....	.....	.....	.....
Niagara, New York.....	1	.....	.....	.....	.....	.....	.....	.....	256	.....	.....	.....	.....	.....	.....	.....
Buffalo Creek, New York.....	25	1882	30	1889	10	1886	25	20	6,593	1885	8,851	1889	915	1886	6,479	7,936
Dunkirk, New York.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Erie, Pennsylvania.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cuyahoga, Ohio.....	2	1882	5	1880	1	1884	2	4	763	1882	1,866	1885	203	1889	725	1,663
Sandusky, Ohio.....	2	.....	.....	1888	1	1883	2	1	335	1880	413	1888	289	1883	362	124
Miami, Ohio.....	4	1880	5	1888	2	1884	4	4	1,615	1880	2,244	1888	313	1884	1,679	1,931
Detroit, Michigan.....	14	1880	34	1888	6	1884	11	28	3,058	1880	6,164	1888	671	1884	2,999	5,493
Huron, Michigan.....	47	1883	78	1889	1	1885	42	77	13,900	1883	23,593	1889	90	1885	12,968	23,503
Superior, Michigan.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Michigan, Michigan.....	7	1880	13	1889	3	1885	4	10	1,656	1880	3,125	1889	572	1885	781	2,553
Chicago, Illinois.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Milwaukee, Wisconsin.....	1	.....	.....	.....	.....	.....	.....	.....	74	.....	.....	.....	.....	.....	.....	.....
Duluth, Minnesota.....	1	1889	2	.....	.....	1887	1	2	281	1889	538	1885	110	1887	110	428

ALL CRAFT.

Oswegatchie, New York.....	35	1888	47	1883	23	1882	31	24	5,660	1889	13,252	1880	2,367	1886	5,151	10,885
Cape Vincent, New York.....	52	1889	59	1881	39	1885	52	20	4,268	1880	5,281	1884	3,293	1882	4,378	1,988
Oswego, New York.....	60	1880	88	1889	36	1885	59	52	12,051	1880	17,065	1888	7,481	1886	11,422	9,584
Genesee, New York.....	21	1883	24	1886	17	1884	21	7	3,028	1882	3,823	1886	2,023	1880	3,117	1,800
Niagara, New York.....	16	1885	18	1881	11	1882	16	7	4,155	1889	5,724	1881	3,324	1882	4,131	2,400
Buffalo Creek, New York.....	209	1889	227	1887	192	1888	211	35	108,568	1889	127,879	1887	93,112	1884	108,200	34,267
Dunkirk, New York.....	2	1880	4	1883	1	1887	2	9	141	1880	614	1883	24	1887	48	620
Erie, Pennsylvania.....	37	1882	43	1888	34	1883	37	9	28,253	1887	30,483	1880	23,464	1881	28,326	7,019
Cuyahoga, Ohio.....	195	1889	241	1880	175	1886	194	66	102,884	1889	176,804	1880	64,286	1886	101,493	112,518
Sandusky, Ohio.....	81	1882	87	1887	76	1886	82	11	21,448	1889	30,580	1880	14,164	1885	21,842	16,416
Miami, Ohio.....	55	1888	64	1882	47	1885	54	17	16,272	1888	18,756	1880	10,506	1889	16,564	8,250
Detroit, Michigan.....	301	1882	312	1889	281	1885	302	31	95,195	1889	127,430	1880	70,815	1885	93,719	56,615
Huron, Michigan.....	365	1889	450	1880	303	1883	366	147	85,243	1889	131,631	1880	51,613	1886	86,292	80,018
Superior, Michigan.....	96	1889	122	1880	67	1884	93	55	16,115	1889	30,346	1880	5,462	1883	16,101	24,884
Michigan, Michigan.....	314	1883	351	1888	295	1885	316	56	33,015	1882	37,610	1888	27,748	1885	32,683	9,862
Chicago, Illinois.....	361	1880	384	1889	342	1885	361	42	71,945	1880	76,478	1886	66,730	1887	72,420	9,748
Milwaukee, Wisconsin.....	358	1888	374	1884	347	1885	355	27	79,856	1889	88,753	1880	67,855	1885	79,359	20,898
Duluth, Minnesota.....	18	1889	29	1880	7	1884	19	22	825	1889	1,938	1880	205	1886	823	1,733

COMPARATIVE STATISTICS—Continued.

TABLE 31.—SHIPBUILDING FOR THE 10 YEARS, 1880-1889 (GENERAL)—NUMBER AND TONNAGE OF ALL STEAMERS, SAILING VESSELS, AND BARGES BUILT IN THE LAKE AND RIVER CUSTOMS DISTRICTS FOR THE YEARS 1880 TO 1889, INCLUSIVE.

1880

CUSTOMS DISTRICTS.	TOTAL.		STEAMERS.		SAILING VESSELS.		BARGES.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total.....	117	20,856.86	63	14,106.46	47	5,426.76	7	1,323.64
Oswegatchie, New York.....	1	6.93	1	6.93				
Cape Vincent, New York.....	5	308.41	2	113.04	3	195.37		
Oswego, New York.....	3	589.70	1	238.41	2	351.29		
Niagara, New York.....	2	225.06			1	99.06	1	126.00
Genesee, New York.....	1	125.83	1	125.83				
Buffalo Creek, New York.....	9	2,151.94	7	2,121.93	2	30.01		
Cuyahoga, Ohio.....	9	3,310.64	7	3,267.87	2	42.77		
Sandusky, Ohio.....	3	1,370.57	3	1,370.57				
Miami, Ohio.....	2	335.15	1	18.47			1	316.68
Detroit, Michigan.....	21	7,501.74	12	4,933.60	7	2,255.59	2	312.55
Huron, Michigan.....	21	1,502.88	4	142.26	15	1,290.35	2	70.27
Michigan, Michigan.....	23	764.27	12	399.71	11	364.56		
Chicago, Illinois.....	1	37.04	1	37.04				
Milwaukee, Wisconsin.....	16	2,626.70	11	1,330.80	4	797.76	1	498.14

1881

Total.....	175	65,127.71	109	49,080.21	52	12,936.32	14	3,111.18
Oswegatchie, New York.....	1	112.27					1	112.27
Cape Vincent, New York.....	4	153.86	3	52.89	1	100.97		
Oswego, New York.....	6	377.21	4	157.61			2	219.60
Niagara, New York.....								
Genesee, New York.....	2	265.72	2	265.72				
Buffalo Creek, New York.....	31	6,927.75	25	5,729.61			6	1,198.14
Cuyahoga, Ohio.....	14	14,152.05	12	13,853.56	2	298.49		
Sandusky, Ohio.....	3	254.80	1	161.24	1	21.36	1	72.20
Miami, Ohio.....	3	2,701.08			3	2,701.08		
Detroit, Michigan.....	24	15,633.14	17	12,999.85	7	2,633.29		
Huron, Michigan.....	30	13,256.89	16	9,829.65	10	1,918.27	4	1,508.97
Superior, Michigan.....	5	1,087.28	1	8.50	4	1,078.78		
Michigan, Michigan.....	23	2,838.26	16	2,615.63	7	222.63		
Chicago, Illinois.....	6	1,425.54	4	893.62	2	531.92		
Milwaukee, Wisconsin.....	23	5,941.86	15	2,512.33	15	3,429.51		

1882

Total.....	199	51,748.66	128	33,596.45	66	16,163.77	5	1,988.44
Oswegatchie, New York.....	1	62.00	1	62.00				
Cape Vincent, New York.....	3	48.53			3	48.53		
Oswego, New York.....	1	10.30	1	10.30				
Genesee, New York.....								
Niagara, New York.....	3	104.16	1	28.06	1	12.10	1	64.00
Buffalo Creek, New York.....	23	3,294.44	20	1,814.71			3	1,479.73
Erie, Pennsylvania.....	4	77.77	4	77.77				
Cuyahoga, Ohio.....	18	12,902.80	13	11,319.94	5	1,582.86		
Sandusky, Ohio.....	5	178.98	3	140.66	2	38.32		
Detroit, Michigan.....	23	13,185.75	15	8,750.07	8	4,435.68		
Huron, Michigan.....	36	11,953.09	13	5,323.14	22	6,185.24	1	444.71
Superior, Michigan.....	4	138.25	4	138.25				
Michigan, Michigan.....	35	3,501.55	26	2,784.61	9	716.94		
Chicago, Illinois.....	15	1,903.61	11	351.95	4	1,551.66		
Milwaukee, Wisconsin.....	28	4,387.43	16	2,794.99	12	1,592.44		

1883

Total.....	134	21,552.25	100	17,253.42	31	6,140.46	3	1,158.37
Oswegatchie, New York.....	1	15.88	1	15.88				
Cape Vincent, New York.....	3	57.60	1	12.56	2	45.04		
Oswego, New York.....	3	48.84	2	35.64	1	13.20		
Genesee, New York.....								
Buffalo Creek, New York.....	22	4,493.49	21	4,169.24			1	324.25
Cuyahoga, Ohio.....	8	5,097.71	5	1,234.46	3	3,863.25		
Sandusky, Ohio.....	1	5.86			1	5.86		
Miami, Ohio.....	4	77.36	4	77.36				
Detroit, Michigan.....	11	2,504.92	10	2,454.54	1	50.38		
Huron, Michigan.....	24	7,418.94	15	5,650.50	7	934.32	2	834.12
Superior, Michigan.....	3	65.88	1	22.36	2	43.52		
Michigan, Michigan.....	20	1,301.03	15	1,205.56	5	95.47		
Chicago, Illinois.....	12	582.72	9	344.77	3	247.95		
Milwaukee, Wisconsin.....	21	2,847.64	15	1,996.17	6	851.47		
Duluth, Minnesota.....	1	34.38	1	34.38				

COMPARATIVE STATISTICS—Continued.

TABLE 31.—SHIPBUILDING FOR THE 10 YEARS, 1880-1889 (GENERAL)—Continued.

1884

CUSTOMS DISTRICTS.	TOTAL.		STEAMERS.		SAILING VESSELS.		BARGES.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total	110	27,882.99	80	20,205.69	29	7,667.30	1	10.00
Oswegatchie, New York	4	191.19	■	152.12	1	29.07	1	10.00
Cape Vincent, New York	2	37.88	2	37.88				
Oswego, New York	1	54.09	1	54.09				
Genesee, New York	1	20.39	1	20.39				
Niagara, New York	1	137.43	1	137.43				
Buffalo Creek, New York	20	4,279.33	20	4,279.33				
Cuyahoga, Ohio	7	3,032.70	5	1,924.77	2	1,107.93		
Sandusky, Ohio	2	1,958.42	1	111.46	1	1,846.96		
Miami, Ohio	2	74.56	2	74.56				
Detroit, Michigan	15	9,561.23	10	8,505.58	5	1,055.65		
Huron, Michigan	19	6,373.32	10	3,519.29	■	2,854.03		
Superior, Michigan	3	182.83	2	131.72	1	51.11		
Michigan, Michigan	18	770.16	14	632.64	4	137.52		
Chicago, Illinois	5	382.54	5	382.54				
Milwaukee, Wisconsin	8	770.25	3	200.89	■	569.36		
Duluth, Minnesota	2	56.67	1	41.00	1	15.67		

1885

Total	95	24,508.79	64	20,228.52	28	3,729.74	3	550.53
Oswegatchie, New York	5	408.41	4	99.35			1	309.06
Cape Vincent, New York	10	915.73	6	791.20	■	124.53		
Oswego, New York								
Genesee, New York								
Niagara, New York	1	111.33			1	111.33		
Buffalo Creek, New York	8	2,307.30	■	2,307.30				
Erie, Pennsylvania	3	73.35	3	73.35				
Cuyahoga, Ohio	4	4,620.18	4	4,620.18				
Sandusky, Ohio	3	109.46	2	55.31	1	54.15		
Miami, Ohio	1	97.89	1	97.89				
Detroit, Michigan	■	6,082.32	5	5,077.23	3	873.32	1	131.77
Huron, Michigan	14	6,018.92	5	4,641.84	9	1,377.08		
Superior, Michigan	1	6.44			1	6.44		
Michigan, Michigan	11	1,359.14	7	976.94	4	382.20		
Chicago, Illinois	8	188.02	8	188.02				
Milwaukee, Wisconsin	15	2,063.39	10	1,262.70	5	800.69		
Duluth, Minnesota	2	146.91	1	37.21			1	109.70

1886

Total	66	18,254.85	46	12,610.73	15	5,232.34	5	411.78
Oswegatchie, New York	3	148.44	2	50.07			1	98.37
Cape Vincent, New York	2	40.54	1	6.61	1	33.93		
Oswego, New York	1	13.51	1	13.51				
Genesee, New York	2	23.16	1	14.46	1	8.70		
Niagara, New York								
Buffalo Creek, New York	10	585.22	7	355.16			3	230.06
Erie, Pennsylvania	1	13.78	1	13.78				
Cuyahoga, Ohio	5	5,666.21	5	5,666.21				
Sandusky, Ohio	5	219.64	5	219.64				
Detroit, Michigan	3	2,998.04	1	1,923.95	1	991.34	1	83.35
Huron, Michigan	9	6,650.82	5	3,000.57	4	3,650.25		
Superior, Michigan	2	308.35	1	17.38	1	290.97		
Michigan, Michigan	13	462.12	7	216.59	6	245.53		
Chicago, Illinois	3	89.37	3	89.37				
Milwaukee, Wisconsin	6	1,023.43	6	1,023.43				
Duluth, Minnesota	1	11.62			1	11.62		

1887

Total	117	52,454.42	75	47,183.46	34	4,892.52	8	378.44
Cape Vincent, New York	2	51.45			2	51.45		
Oswego, New York	4	124.74	3	117.65	1	7.09		
Genesee, New York	5	69.61	5	69.61				
Niagara, New York	8	857.95	7	837.36			1	20.59
Buffalo Creek, New York	14	5,160.91	12	4,961.88			2	199.03
Dunkirk, New York	2	58.88	2	58.88				
Erie, Pennsylvania	1	13.40	1	13.40				
Cuyahoga, Ohio	12	16,351.31	10	15,256.31	2	1,095.00		
Detroit, Michigan	11	10,554.08	8	8,655.89	3	1,898.19		
Huron, Michigan	22	13,690.34	11	12,131.93	6	1,399.59	5	158.82
Superior, Michigan	2	72.94			2	72.94		
Michigan, Michigan	18	1,605.29	11	1,470.85	7	134.44		
Chicago, Illinois	9	880.48	1	694.04	8	185.54		
Milwaukee, Wisconsin	7	2,963.04	4	2,014.76	3	48.28		

STATISTICS OF TRANSPORTATION.

COMPARATIVE STATISTICS—Continued.

TABLE 31.—SHIPBUILDING FOR THE 10 YEARS, 1880-1889 (GENERAL)—Continued.

1888

CUSTOMS DISTRICTS.	TOTAL.		STEAMERS.		SAILING VESSELS.		BARGES.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total	183	96,314.73	139	86,715.98	42	9,130.98	2	467.77
Oswegatchie, New York	3	112.50	2	73.03			1	39.47
Cape Vincent, New York	6	130.28	5	115.26	1	15.02		
Oswego, New York	5	346.59	4	338.19	1	8.40		
Niagara, New York	7	864.91	7	864.91				
Buffalo Creek, New York	23	8,049.95	23	8,049.95				
Erie, Pennsylvania	3	127.84	3	127.84				
Cuyahoga, Ohio	23	29,786.13	22	28,527.51	1	1,258.62		
Sandusky, Ohio	5	396.86	3	156.95	2	239.91		
Miami, Ohio	2	144.12	2	144.12				
Detroit, Michigan	19	20,534.68	17	18,628.35	2	1,906.33		
Huron, Michigan	31	22,275.08	19	17,825.58	12	4,449.50		
Superior, Michigan	5	856.95	2	27.60	3	829.35		
Michigan, Michigan	17	2,579.85	12	2,523.31	5	56.54		
Chicago, Illinois	3	98.41	2	86.79	1	11.62		
Milwaukee, Wisconsin	30	9,582.28	16	9,226.59	14	355.69		
Duluth, Minnesota	1	428.30					1	428.30

1889

Total	179	102,051.75	145	93,706.73	32	8,097.76	1	247.26
Oswegatchie, New York	1	13.37	1	13.37				
Cape Vincent, New York	4	135.33	1	12.67	2	49.30	1	73.36
Oswego, New York	1	51.47	1	51.47				
Genesee, New York								
Niagara, New York	1	141.45	1	141.45				
Buffalo Creek, New York	20	5,239.78	20	5,239.78				
Erie, Pennsylvania	2	29.41	2	29.41				
Cuyahoga, Ohio	23	31,205.32	22	31,144.00	1	61.32		
Sandusky, Ohio	2	49.97	2	49.97				
Miami, Ohio	5	872.18	4	859.24	1	12.94		
Detroit, Michigan	20	22,425.51	15	20,128.46	5	2,297.05		
Huron, Michigan	39	25,459.33	29	20,979.90	9	4,305.53	1	173.90
Superior, Michigan	3	80.36	2	69.61	1	10.75		
Michigan, Michigan	28	5,188.59	21	4,382.90	7	805.69		
Chicago, Illinois	2	28.58	2	28.58				
Milwaukee, Wisconsin	28	11,131.10	22	10,575.92	6	555.18		

RECAPITULATION.

YEARS.	TOTAL.		STEAMERS.		SAILING VESSELS.		BARGES.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total for 10 years	1,375	483,753.01	949	394,687.65	376	79,417.95	50	9,647.41
1880	117	20,856.86	63	14,106.46	47	5,426.76	7	1,323.64
1881	175	65,127.71	109	49,080.21	52	12,936.32	14	3,111.18
1882	199	51,748.66	123	33,596.45	66	16,163.77	5	1,988.44
1883	134	24,552.25	100	17,253.42	31	6,140.46	3	1,158.37
1884	110	27,882.99	80	20,205.69	29	7,667.30	1	10.00
1885	95	24,508.79	64	20,228.52	28	3,729.74	3	550.53
1886	66	18,254.85	46	12,610.73	15	5,232.34	5	411.78
1887	117	52,454.42	75	47,183.46	34	4,892.52	8	378.44
1888	183	96,314.73	139	86,715.98	42	9,130.98	2	467.77
1889	179	102,051.75	145	93,706.73	32	8,097.76	2	247.26

TRANSPORTATION ON THE GREAT LAKES.

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COMPARATIVE STATISTICS—Continued.

TABLE 32.—SHIPBUILDING FOR THE 10 YEARS, 1880-1889 (STEAMERS)—NUMBER AND TONNAGE OF ALL STEAMERS BUILT IN THE LAKE AND RIVER CUSTOMS DISTRICTS FOR THE DECADE 1880-1889, TOGETHER WITH DATE SHOWING THE NUMBER AND TONNAGE OF PROPELLER, SIDE-WHEEL, AND STERN-WHEEL STEAMERS BUILT EACH YEAR IN EACH DISTRICT.

1880

CUSTOMS DISTRICTS.	ALL STEAMERS.		PROPELLER.		SIDE-WHEEL.		STERN-WHEEL.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total.....	63	14,106.46	55	12,014.71	3	1,929.53	5	162.22
Oswegatchie, New York.....	1	6.93	1	6.93				
Cape Vincent, New York.....	2	113.04	2	113.04				
Oswego, New York.....	1	238.41	1	238.41				
Genesee, New York.....	1	125.83			1	125.83		
Buffalo Creek, New York.....	7	2,121.93	7	2,121.93				
Cuyahoga, Ohio.....	7	3,267.87	7	3,267.87				
Sandusky, Ohio.....	3	1,370.57	3	1,370.57				
Miami, Ohio.....	1	18.47					1	18.47
Detroit, Michigan.....	12	4,933.60	11	3,338.67	1	1,594.93		
Huron, Michigan.....	4	142.26	4	142.26				
Michigan, Michigan.....	12	399.71	8	255.96			4	143.75
Chicago, Illinois.....	1	37.04	1	37.04				
Milwaukee, Wisconsin.....	11	1,330.80	10	1,122.03	1	208.77		

1881

Total.....	109	49,080.21	106	47,846.79	2	1,197.38	1	36.04
Cape Vincent, New York.....	3	52.89	3	52.89				
Oswego, New York.....	4	157.61	4	157.61				
Genesee, New York.....	2	265.72	1	217.06	1	48.66		
Buffalo Creek, New York.....	25	5,729.61	25	5,729.61				
Cuyahoga, Ohio.....	12	13,853.56	11	13,817.52			1	36.04
Sandusky, Ohio.....	1	161.24	1	161.24				
Detroit, Michigan.....	17	12,999.85	16	11,851.13	1	1,148.72		
Huron, Michigan.....	16	9,829.65	16	9,829.65				
Superior, Michigan.....	1	8.50	1	8.50				
Michigan, Michigan.....	10	2,615.63	16	2,615.63				
Chicago, Illinois.....	4	893.62	4	893.62				
Milwaukee, Wisconsin.....	8	2,512.33	8	2,512.33				

1882

Total.....	128	33,596.45	108	20,858.94	18	10,846.81	2	1,890.70
Oswegatchie, New York.....	1	62.00	1	62.00				
Oswego, New York.....	1	10.30	1	10.30				
Niagara, New York.....	1	28.06	1	28.06				
Buffalo Creek, New York.....	20	1,814.71	19	704.45	1	1,110.26		
Erie, Pennsylvania.....	4	77.77	3	31.67	1	46.10		
Cuyahoga, Ohio.....	13	11,319.94			11	9,429.24	2	1,890.70
Sandusky, Ohio.....	3	140.66			3	140.66		
Detroit, Michigan.....	15	8,750.07	15	8,750.07				
Huron, Michigan.....	13	5,323.14	13	5,323.14				
Superior, Michigan.....	4	138.25	4	138.25				
Michigan, Michigan.....	26	2,784.61	26	2,784.61				
Chicago, Illinois.....	11	351.95	11	351.95				
Milwaukee, Wisconsin.....	16	2,794.99	14	2,674.44	2	120.55		

1883

Total.....	100	17,253.42	96	17,032.07	4	221.35		
Oswegatchie, New York.....	1	15.88	1	15.88				
Cape Vincent, New York.....	1	12.56	1	12.56				
Oswego, New York.....	2	35.64	2	35.64				
Buffalo Creek, New York.....	21	4,169.24	21	4,169.24				
Cuyahoga, Ohio.....	5	1,234.46	5	1,234.46				
Miami, Ohio.....	4	77.36	4	77.36				
Detroit, Michigan.....	10	2,454.54	10	2,454.54				
Huron, Michigan.....	15	5,650.50	15	5,650.50				
Superior, Michigan.....	1	22.36	1	22.36				
Michigan, Michigan.....	15	1,205.56	15	1,205.56				
Chicago, Illinois.....	9	344.77	9	344.77				
Milwaukee, Wisconsin.....	15	1,996.17	11	1,774.82	4	221.35		
Duluth, Minnesota.....	1	34.38	1	34.38				

STATISTICS OF TRANSPORTATION.

COMPARATIVE STATISTICS—Continued.

TABLE 32.—SHIPBUILDING FOR THE 10 YEARS, 1880-1889 (STEAMERS)—Continued.

1884

CUSTOMS DISTRICTS.	ALL STEAMERS.		PROPELLER.		SIDE-WHEEL.		STERN-WHEEL.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total.....	80	20,205.69	73	17,206.94	3	2,742.56	4	256.19
Oswegatchie, New York.....	2	152.12	2	152.12				
Cape Vincent, New York.....	2	37.88	2	37.88				
Oswego, New York.....	1	54.09	1	54.09				
Genesee, New York.....	1	20.39	1	20.39				
Niagara, New York.....	1	137.43	1	137.43				
Buffalo Creek, New York.....	20	4,279.33	19	3,866.66	1	412.67		
Cuyahoga, Ohio.....	5	1,924.77	5	1,924.77				
Sandusky, Ohio.....	1	111.46	1	111.46				
Miami, Ohio.....	2	74.56	2	74.56				
Detroit, Michigan.....	10	8,505.58	8	6,175.69	2	2,329.89		
Huron, Michigan.....	10	3,519.29	10	3,519.29				
Superior, Michigan.....	2	131.72	2	131.72				
Michigan, Michigan.....	14	632.64	11	527.11			3	105.53
Chicago, Illinois.....	5	382.54	5	382.54				
Milwaukee, Wisconsin.....	3	200.89	2	50.23			1	150.66
Duluth, Minnesota.....	1	41.00	1	41.00				

1885

Total.....	64	20,228.52	60	19,371.66	4	856.86		
Oswegatchie, New York.....	4	99.35	4	99.35				
Cape Vincent, New York.....	6	791.20	4	33.47	2	757.73		
Buffalo Creek, New York.....	8	2,307.30	8	2,307.30				
Erie, Pennsylvania.....	3	73.35	3	73.35				
Cuyahoga, Ohio.....	4	4,620.18	4	4,620.18				
Sandusky, Ohio.....	2	55.31	2	55.31				
Miami, Ohio.....	1	97.89	1	97.89				
Detroit, Michigan.....	5	5,077.23	5	5,077.23				
Huron, Michigan.....	5	4,641.84	5	4,641.84				
Michigan, Michigan.....	7	976.94	7	976.94				
Chicago, Illinois.....	8	188.02	8	188.02				
Milwaukee, Wisconsin.....	10	1,262.70	9	1,200.78	1	61.92		
Duluth, Minnesota.....	1	37.21			1	37.21		

1886

Total.....	46	12,610.73	43	10,024.40	2	2,462.15	1	124.18
Oswegatchie, New York.....	2	50.07	2	50.07				
Cape Vincent, New York.....	1	6.61	1	6.61				
Oswego, New York.....	1	13.51	1	13.51				
Genesee, New York.....	1	14.46	1	14.46				
Buffalo Creek, New York.....	7	355.16	7	355.16				
Erie, Pennsylvania.....	1	13.78	1	13.78				
Cuyahoga, Ohio.....	5	5,666.21	4	5,128.01	1	538.20		
Sandusky, Ohio.....	5	219.64	4	95.46			1	124.18
Detroit, Michigan.....	1	1,923.95			1	1,923.95		
Huron, Michigan.....	5	3,000.57	5	3,000.57				
Superior, Michigan.....	1	17.38	1	17.38				
Michigan, Michigan.....	7	216.59	7	216.59				
Chicago, Illinois.....	3	89.37	3	89.37				
Milwaukee, Wisconsin.....	11	1,023.43	6	1,023.43				

1887

Total.....	75	47,183.46	74	47,166.07	1	17.39		
Oswego, New York.....	3	117.65	3	117.65				
Genesee, New York.....	5	69.61	5	69.61				
Niagara, New York.....	7	837.36	7	837.36				
Buffalo Creek, New York.....	12	4,961.88	11	4,944.49	1	17.39		
Dunkirk, New York.....	2	58.88	2	58.88				
Erie, Pennsylvania.....	1	13.40	1	13.40				
Cuyahoga, Ohio.....	10	15,256.31	10	15,256.31				
Detroit, Michigan.....	8	8,655.89	8	8,655.89				
Huron, Michigan.....	11	12,131.93	11	12,131.93				
Michigan, Michigan.....	11	1,470.85	11	1,470.85				
Chicago, Illinois.....	1	694.94	1	694.94				
Milwaukee, Wisconsin.....	4	2,914.76	4	2,914.76				

TRANSPORTATION ON THE GREAT LAKES.

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COMPARATIVE STATISTICS—Continued.

TABLE 32.—SHIPBUILDING FOR THE 10 YEARS, 1880-1889 (STEAMERS)—Continued.

1888

CUSTOMS DISTRICTS.	ALL STEAMERS.		PROPELLER.		SIDE-WHEEL.		STERN-WHEEL.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total.....	139	86,715.98	136	86,564.69	2	114.97	1	36.32
Oswegatchie, New York.....	2	73.03	2	73.03				
Cape Vincent, New York.....	5	115.26	5	115.26				
Oswego, New York.....	4	338.19	4	338.19				
Niagara, New York.....	7	864.91	7	864.91				
Buffalo Creek, New York.....	23	8,049.95	23	8,049.95				
Erie, Pennsylvania.....	3	127.84	3	127.84				
Cuyahoga, Ohio.....	22	28,527.51	22	28,527.51				
Sandusky, Ohio.....	3	156.95	2	120.63			1	36.32
Miami, Ohio.....	2	144.12	2	144.12				
Detroit, Michigan.....	17	18,628.35	17	18,628.35				
Huron, Michigan.....	19	17,825.58	19	17,825.58				
Superior, Michigan.....	2	27.60	2	27.60				
Michigan, Michigan.....	12	2,523.31	11	2,435.03	1	88.28		
Chicago, Illinois.....	2	86.79	1	60.10	1	26.69		
Milwaukee, Wisconsin.....	16	9,226.59	16	9,226.59				

1889

Total.....	145	93,706.73	138	89,188.68	6	4,328.09	1	189.96
Oswegatchie, New York.....	1	13.37	1	13.37				
Cape Vincent, New York.....	1	12.67	1	12.67				
Oswego, New York.....	1	51.47	1	51.47				
Niagara, New York.....	1	141.45	1	141.45				
Buffalo Creek, New York.....	20	5,239.78	20	5,239.78				
Erie, Pennsylvania.....	2	29.41	2	29.41				
Cuyahoga, Ohio.....	22	31,144.00	21	29,632.88	1	1,511.12		
Sandusky, Ohio.....	2	49.97	1	49.97				
Miami, Ohio.....	4	859.24	3	300.65	1	558.59		
Detroit, Michigan.....	15	20,128.46	13	18,036.56	2	2,091.90		
Huron, Michigan.....	29	20,979.90	28	20,908.95	1	70.95		
Superior, Michigan.....	2	69.61	2	69.61				
Michigan, Michigan.....	21	4,382.90	21	4,382.90				
Chicago, Illinois.....	2	28.58	2	28.58				
Milwaukee, Wisconsin.....	22	10,575.92	20	10,290.43	1	95.53	1	189.96

RECAPITULATION.

YEARS.	ALL STEAMERS.		PROPELLER.		SIDE-WHEEL.		STERN-WHEEL.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total for the 10 years.....	949	394,687.65	889	367,274.95	45	24,717.09	15	2,695.61
1880.....	63	14,106.46	55	12,014.71	3	1,929.53	5	162.22
1881.....	109	49,080.21	106	47,846.79	2	1,197.38	1	36.04
1882.....	128	33,596.45	108	20,858.94	18	10,846.81	2	1,890.70
1883.....	100	17,253.42	96	17,032.07	4	221.35		
1884.....	80	20,205.69	73	17,206.94	3	2,742.56	4	256.19
1885.....	64	20,228.52	60	19,371.66	4	856.86		
1886.....	46	12,610.73	43	10,024.40	2	2,462.15	1	124.18
1887.....	75	47,183.46	74	47,166.07	1	17.39		
1888.....	139	86,715.98	136	86,564.69	2	114.97	1	36.32
1889.....	145	93,706.73	138	89,188.68	6	4,328.09	1	189.96

CONGRESSIONAL APPROPRIATIONS.

TABLE 33.—APPROPRIATIONS BY DETAILED LOCALITIES—CONGRESSIONAL APPROPRIATIONS FOR THE SURVEY, IMPROVEMENT, AND MAINTENANCE OF THE HARBORS OF THE GREAT LAKES, AND OF THE RIVERS FLOWING INTO THEM, FROM THE EARLIEST DATE OF APPROPRIATION TO 1890, INCLUSIVE, GIVEN BY DETAILS OF LOCALITY AND TIME.

LOCALITIES.	Date of earliest appropriations.	Appropriations up to and including 1879.	Appropriations from 1880 to 1889, inclusive.	Appropriations by act of Congress, September, 1890.	Total appropriations up to date.
Total.....	1823	\$23, 700, 565	\$12, 999, 165	\$4, 213, 245	\$40, 912, 975
Lake Superior.....	1858	3, 467, 555	3, 738, 500	2, 027, 245	9, 233, 300
Agate bay, Minnesota.....	1886		37, 500	25, 000	62, 500
Ashland harbor, Wisconsin.....	1886		82, 500	60, 000	142, 500
Duluth harbor, Minnesota.....	1871	261, 050	291, 250	100, 000	652, 300
Eagle harbor, Michigan.....	1866	97, 000			97, 000
Grand Marais harbor, Minnesota.....	1879	10, 000	85, 000	22, 350	117, 350
Grand Marais harbor of refuge, Michigan.....	1879	10, 000	291, 250	50, 000	351, 250
Marquette harbor, Michigan.....	1880	297, 230	48, 000	40, 000	385, 230
Ontonagon harbor, Michigan.....	1867	202, 600	95, 500	10, 000	308, 100
Portage Lake ship canal, Michigan.....	1886		10, 000	350, 000	360, 000
St. Marys river and canal, Michigan.....	1858	2, 215, 692	2, 625, 000	1, 300, 000	6, 140, 692
Superior and St. Louis bays, Wisconsin.....	1873	373, 983	172, 500	69, 895	616, 378
Lakes Huron and St. Clair.....	1852	1, 934, 310	1, 511, 890	245, 500	3, 691, 700
Alpena harbor (Thunder bay), Michigan.....	1876	4, 500	15, 000	15, 500	35, 000
Au Sable river and harbor, Michigan.....	1867	95, 750	18, 000		113, 750
Belle river, Michigan.....	1881		14, 000		14, 000
Black river, Michigan.....	1888		10, 000	35, 000	45, 000
Cheboygan harbor, Michigan.....	1871	91, 000	57, 000		148, 000
Clinton river, Michigan.....	1852	11, 500	30, 000	10, 000	51, 500
Clinton harbor, Michigan.....	1882		3, 000		3, 000
Detroit river, Michigan.....	1874	175, 000	528, 000		703, 000
Harbor of refuge at Sand Beach, Michigan.....	1871	700, 000	420, 000	30, 000	1, 150, 000
St. Clair river, flats, and canal.....	1852	653, 560	111, 140	80, 000	844, 700
Saginaw river, Michigan.....	1866	195, 000	298, 750	75, 000	568, 750
Sebawaing harbor, Michigan.....	1875	8, 000	7, 000		15, 000
Lake Michigan.....	1826	6, 440, 843	3, 917, 400	893, 000	11, 251, 243
Ahnapee harbor, Wisconsin.....	1871	103, 000	62, 000	6, 000	171, 000
Black Lake harbor, Michigan.....	1852	217, 615	47, 000	10, 000	274, 615
Calumet harbor and river, Illinois.....	1870	277, 000	135, 400	70, 000	482, 400
Cedar river (Green Bay), Michigan.....	1882		30, 000		30, 000
Charlevoix harbor, Michigan.....	1876	31, 000	62, 500	9, 000	102, 500
Chicago harbor, Illinois.....	1833	1, 134, 005	870, 000	100, 000	2, 104, 005
Fox river (mouth of), Wisconsin.....	1867	40, 000			40, 000
Frankfort harbor, Michigan.....	1866	213, 660	50, 000	10, 000	273, 660
Grand Haven harbor, Michigan.....	1852	303, 866	245, 000	75, 000	623, 866
Grand river, Michigan.....	1881		50, 000		50, 000
Green Bay harbor, Wisconsin.....	1866	229, 550	58, 000	10, 000	297, 550
Kenosha harbor, Wisconsin.....	1844	194, 307	33, 500	17, 000	244, 807
Kewaunee harbor, Wisconsin.....	1881		55, 000	20, 000	75, 000
Lake Winnebago, Wisconsin.....	1839	500			500
La Plaisance bay, Michigan.....	1826	19, 803			19, 803
Ludington harbor, Michigan.....	1867	196, 185	156, 250		352, 435
Manistee harbor, Michigan.....	1867	183, 000	65, 000	50, 000	298, 000
Manistique harbor, Michigan.....	1880		6, 000		6, 000
Manitowoc harbor, Wisconsin.....	1852	240, 820	59, 000	8, 000	307, 820
Menominee harbor, Wisconsin.....	1871	153, 000	59, 000	54, 000	266, 000
Michigan city (outer harbor), Indiana.....	1836	679, 889	304, 375	50, 000	1, 034, 264
Michigan city (inner harbor), Indiana.....	1880		76, 875	7, 500	84, 375
Milwaukee bay, Wisconsin.....	1881		415, 000	86, 000	501, 000
Milwaukee harbor, Wisconsin.....	1836	335, 987	38, 000		373, 987
Muskegon harbor, Michigan.....	1867	140, 000	130, 000	50, 000	320, 000
Neenah river, Wisconsin.....	1839	2, 500			2, 500
New Buffalo harbor, Michigan.....	1852	78, 000	5, 000	100, 000	183, 000
Oconto harbor, Wisconsin.....	1881		68, 000		68, 000
Pensaukee harbor, Wisconsin.....	1882		15, 000		15, 000
Pentwater harbor, Michigan.....	1867	168, 820	57, 000	8, 000	233, 820
Petoskey harbor, Michigan.....	1890			15, 000	15, 000
Port Washington, Wisconsin.....	1870	100, 500	84, 000	3, 000	187, 500
Portage Lake harbor of refuge, Michigan.....	1879	10, 000	82, 500	8, 000	100, 500
Racine harbor, Wisconsin.....	1844	201, 285	46, 000	17, 500	264, 785
St. Josephs harbor, Michigan.....	1836	280, 113	67, 000	20, 000	367, 113
St. Josephs river (survey), Michigan.....	1888		2, 500	1, 000	3, 500
Saugatuck harbor, Michigan.....	1868	105, 439	35, 000		140, 439
Sheboygan harbor, Wisconsin.....	1852	183, 449	120, 000	15, 000	318, 449
South Haven harbor, Michigan.....	1867	149, 500	42, 500	15, 000	207, 000
Sturgeon bay, Wisconsin.....	1873	110, 000	55, 000	3, 000	168, 000
Two Rivers harbor, Wisconsin.....	1871	140, 000	60, 500	3, 000	203, 500
Waukegan harbor, Illinois.....	1852	15, 000	115, 000	35, 000	165, 000
White River harbor, Michigan.....	1867	203, 050	54, 500	17, 000	274, 550

CONGRESSIONAL APPROPRIATIONS—Continued.

TABLE 33.—APPROPRIATIONS BY DETAILED LOCALITIES—Continued.

LOCALITIES.	Date of earliest appropriations.	Appropriations up to and including 1879.	Appropriations from 1880 to 1889, inclusive.	Appropriations by act of Congress, September, 1890.	Total appropriations up to date.
Lake Erie	1823	\$5,362,336	\$2,712,500	\$804,500	\$8,879,336
Ashtabula harbor, Ohio	1826	290,711	137,500	40,000	468,211
Black River harbor, Ohio	1879	175,205	45,000	12,000	232,205
Buffalo harbor, New York	1826	1,410,495	742,500	300,000	2,452,995
Cattaraugus creek, New York	1836	57,410			57,410
Cleveland harbor, Ohio	1825	654,882	793,750	75,000	1,523,632
Conneaut harbor, Ohio	1829	106,629	6,000		112,629
Cunningham creek, Ohio	1826	19,781			19,781
Dunkirk harbor, New York	1827	430,946	55,000	20,000	505,946
Erie harbor, Pennsylvania	1823	616,367	235,500	40,000	891,867
Grand River harbor (Fairport), Ohio	1825	229,124	61,750	30,000	320,874
Huron river and harbor, Ohio	1826	98,274	25,000	16,000	139,274
Monroe harbor, Michigan	1835	209,515	11,000	5,000	225,515
Port Clinton harbor, Ohio	1872	40,000	23,000	3,000	66,000
Portland harbor, New York	1836	56,616			56,616
Rocky River harbor, Ohio	1872	35,000	4,000		39,000
Rouge River, Michigan	1888		10,000	10,000	20,000
Sandusky City harbor, Ohio	1826	222,980	97,500	45,000	365,480
Sandusky river, Ohio	1867	30,000	21,500	1,500	53,000
Toledo harbor, Ohio	1866	564,700	432,500	205,000	1,202,200
Vermilion river, Ohio	1836	113,701	11,000	2,000	126,701
Lake Ontario	1826	2,581,855	895,875	115,000	3,592,730
Black river (Sacketts harbor), New York	1836	42,400			42,400
Charlotte harbor, New York	1828	310,578	133,750	25,000	469,328
Great Sodus bay, New York	1829	943,772	83,875	10,000	1,037,647
Little Sodus bay, New York	1852	194,442	103,500	13,000	310,942
Oak Orchard harbor, New York	1836	173,000	27,000	5,000	205,000
Olcott harbor, New York	1867	115,000	18,000	30,000	163,000
Oswego harbor, New York	1826	1,264,363	471,250	30,000	1,765,613
Port Ontario harbor, New York	1836	50,000			50,000
Pultneyville harbor, New York	1870	62,000	9,000	2,000	73,000
Sacketts harbor, New York	1826	6,000	9,000		15,000
Sandy creek, New York	1828	300			300
Wilson harbor, New York	1875	20,000	40,500		60,500
St. Lawrence river	1852	140,006	58,500	53,000	251,506
Grass river, New York	1882		3,000	6,000	9,000
Ogdensburg harbor, New York	1852	110,006	50,000	42,000	202,006
Sister islands, New York	1890			5,000	5,000
Waddington harbor, New York	1873	30,000	5,500		35,500
Niagara river	1829	52,098	106,500	75,000	233,598
Black Rock harbor, New York	1829	52,098			52,098
Tonawanda harbor, New York	1881		106,500	75,000	181,500
General appropriations	1836	3,721,562	58,000		3,779,562
General repairs of harbor	1844	270,000			270,000
Surveys	1866	175,000			175,000
Survey steamer	1854	50,000			50,000
Chart-making	1849	130,000			130,000
Hydrographic surveys	1841	2,973,879	58,000		3,031,879
Construction of dredging machines	1836	122,683			122,683

TRANSPORTATION ON LAKE CHAMPLAIN.

The statistics of transportation on Lake Champlain were but partially given in the fourth volume of the Tenth Census, and to have included the statistics of this sheet of water in the report on the Great Lakes and St. Lawrence river for the Eleventh Census would have stood in the way of preparing any comparative statistics for 1880 and 1890. It was therefore decided to make a separate report for Lake Champlain. No record was made either of early commercial operations on Lake Champlain except the statement that 1 of the first 4 steamers built on all the northern lakes was a craft of 298.57 tons, which was constructed on Lake Champlain about the year 1818.

All that it is necessary to say concerning Lake Champlain in the way of physical geography is that it forms the boundary line for its whole length between the states of New York and Vermont, and is 100 miles long from its head of navigation at Whitehall, in Washington county, New York, to its farthest northward extension where it joins the boundary line between Quebec and the states of New York and Vermont. Its area, however, is not as great as its length would seem to indicate, for while its northern part incloses several small islands and is nearly 14 miles wide, more than half of its entire length is not more than 5 miles wide and in some places is less than 1 mile wide. Its greatest ascertained depth is 600 feet, and its surface is 93 feet higher than the level of the sea. Its surplus waters are discharged into the St. Lawrence by the river Richelieu, while on the east it receives the waters of the Missisquoi, the Lamoille, and the Winooski rivers, and Otter creek; from the south those of the Poultney; the contributing streams on the west being the Chazy, the Saranac, and the Au Sable rivers.

It may be added that besides being an important channel of navigation in itself it is connected with the Hudson river by the Champlain canal, which extends from Whitehall to Albany.

PLAN OF THE TABLES.

The plan adopted for the presentation of the statistical results of the investigation by the Eleventh Census into the industry of transportation on Lake Champlain, with some necessary modifications, is the same that was followed in considering the Great Lakes and St. Lawrence river, the numbers and the titles of the 17 tables which have been prepared in this instance being as follows:

Equipment, occupation, and construction:

- Table 1—Equipment in general.
- Table 2—Equipment of fleets, by classes.
- Table 3—Percentages of tonnage and valuation.
- Table 4—Construction, by localities.
- Table 5—Construction, by materials.

Traffic operations:

- Table 6—Freight movement in general.
- Table 7—Freight movement, by ports and commodities.

Earnings and expense accounts:

- Table 8—Financial account in general.
- Table 9—Expense account in detail.
- Table 10—Employés and wages.
- Table 11—Fuel account.

Comparative statistics:

- Table 12—Fleets for the 10 years 1880–1889.
- Table 13—Vessel tonnage for the 10 years 1880–1889.
- Table 14—Tonnage fluctuations for the 10 years 1880–1889.
- Table 15—Shipbuilding for the 10 years 1880–1889 (general).
- Table 16—Shipbuilding for the 10 years 1880–1889 (steamers).

Congressional appropriations:

- Table 17—Appropriations, by localities.

The preceding list shows clearly the scheme on which the tabulation of the Lake Champlain statistics has been carried out, while the following synopsis will more explicitly show what the tables contain:

EQUIPMENT.

Table 1, "Equipment in general", shows the number, tonnage, and value of all the steamers and sailing vessels of over 5 tons burden owned on Lake Champlain in 1889, entered by ports.

Table 2, entitled "Equipment of fleets, by classes", divides the entries of Table 1, separating the total number, tonnage, and value of all steamers and sailing vessels into classes, retaining the separate entries by ports. The steamers are divided into 4 classes, namely, side-wheel passenger steamers, propellers carrying both passengers and freight, tugs, and all other classes, while the sailing vessels are divided into 2 classes, schooners and sloops.

Table 3, entitled "Percentages of tonnage and valuation", gives the number, gross and net tonnage, estimated carrying capacity, valuation, and value per gross ton of all vessels owned on Lake Champlain, the entire lake fleet being divided into 8 classes of occupation, and the percentages of both the tonnage and valuation of each of these classes to the lake totals being given.

CONSTRUCTION.

Table 4, "Construction, by localities", gives the number, tonnage, value, average value per ton, and the average tonnage of all vessels owned on Lake Champlain per material of construction, given by separate entries for each port.

Table 5, entitled "Construction, by materials", gives the number, tonnage, value, average value per ton, and average tonnage of the same craft, but grouped according to material of construction, in contradistinction to the preceding table, in which the grouping is done by ports.

TRAFFIC.

Table 6, "Freight movement in general", contains the receipts, shipments, and excess of one movement over the other, and the total movement of the freight moved on Lake Champlain with the commodities divided into the same comprehensive classes used in the report on the Great Lakes and St. Lawrence river, that is:

Class I—Products of agriculture.

Class II—Products of mines and quarries.

Class III—Other products (such as animal products and lumber).

Class IV—Manufactures, miscellaneous merchandise, and other commodities.

There has been worked out for this table also the percentage of each commodity to the total traffic, whether of receipts, shipments, or combined movements.

Table 7, "Freight movements, by ports and commodities", presents the figures of commodity movement given in the preceding table, allotted to the 8 principal trading points of Lake Champlain.

EARNINGS AND EXPENSE ACCOUNTS.

Table 8, entitled "Financial account in general", is really a balance sheet of the industry of transportation on Lake Champlain, showing as it does the gross earnings, expenses, and net earnings of the operating lake fleet of steamers and sailing vessels, entered for each port of registration.

Table 9, "Expense account in detail", itemizes the sum of gross expenses given in the preceding table under the various heads of port charges, wages, provisions, current repairs, fuel (for the steamers), commissions, insurance, taxes, and office expenses, with two columns for such other running and shore expenses as have not been specified.

Table 10, "Employés and wages", is an analysis of the monthly wages paid on the operating vessels belonging to each port, to all grades of employés from captains to captains' boys, and from first mates to chambermaids, together with the number of persons making up the ordinary crews required as the complement of all operating craft, the number of persons receiving whole or partial employment in the operation of these vessels, the total wages paid out each month, and the average rate of wages paid.

Table 11, entitled "Fuel account" applies, of course, only to operating steamers. These steamers are grouped under the heads of (1) passenger, passenger and freight, and freight steamers, (2) towboats, and (3) miscellaneous. For each of these classes and for each port the number of tons of coal consumed is set down, together with the cost of material.

COMPARATIVE STATISTICS.

Table 12, "Fleets for the 10 years 1880-1889", gives the number and tonnage of all steamers and sailing vessels registered in the customs districts of Lake Champlain for the decade in question; this table as well as the 4 succeeding having been compiled from information furnished this office by the Commissioner of Navigation.

In Table 13 these figures of number and tonnage are made the base for a calculation of averages which are worked out and given for steamers and sailing vessels for the 10 years, while Table 14 gives the fluctuations from the annual average number and the annual average tonnage of all steamers and sailing vessels registered in the customs districts.

Tables 15 and 16 are records of shipbuilding for the decennial period in question, the first giving the number and tonnage of all steamers and sailing vessels built during the 7 years of activity in the decade, and the second furnishing the data for the 4 years in which steamers were built, to show the number and tonnage of all vessels of this kind so built, arranged according to their methods of propulsion—that is, whether propellers or side-wheel steamers.

CONGRESSIONAL APPROPRIATIONS.

Table 17, which concludes the series, gives the amounts appropriated by Congress for the survey, improvement, and maintenance of the harbors of Lake Champlain and of the rivers flowing into it, from the earliest date of appropriation down to and including that of the act of Congress of September, 1890. These sums, so far as the grouping of periods is concerned, are given, first, up to and including 1879; second, from 1880 to 1889, inclusive; third, the appropriations of 1890, and fourth, the total appropriations from first to last.

LOCALITIES.

Before taking up the consideration of what the tables show it will be necessary to explain the various localities mentioned in the different statements. The two places entered on Tables 1, 2, 4, 5, 8, 9, 10, and 11, Burlington, Vermont, and Plattsburg, New York, are the ports of register of the two customs districts of Vermont and Champlain, which latter localities are given in Tables 12, 13, 14, 15, and 16, the former term having been used by the Census agents in collecting their information, and the latter being the term employed in the reports of the Commissioner of Navigation, the two being practically the same. In Table 7 the list of the principal trading points on the lake is given, the traffic returns being a matter entirely outside of custom-house registration, and the list being as follows:

Rouses Point, New York.
Plattsburg, New York.
Ticonderoga, New York.
Whitehall, New York.

Gordons Landing, Vermont.
Burlington, Vermont.
Otter Creek, Vermont.
Swanton, Vermont.

WHAT THE TABLES SHOW.

In the text of the Great Lakes and St. Lawrence river the next step taken after the consideration of “the plan of the tables” was to inquire what the tables show, and no better plan could be adopted for the present article.

VALUES AND TONNAGE.

The information given in Table 1 shows that in the year ended December 31, 1889, the floating equipment of Lake Champlain, exclusive of barges and all other unrigged craft, numbered 47 vessels, having a tonnage of 6,061 tons and a value of \$361,300. So far as numbers go the shipping was about equally distributed both between steamers and sailing vessels, and between the 2 ports of registration of Burlington and Plattsburg, the steamers numbering 22 and the sailing vessels 25. The figures of values and tonnage, however, are quite different, for while the tonnage of the steamers was 4,136 tons, that of the sailing vessels was 1,925; and while the value of the 25 sailing vessels was \$36,800, that of the steamers amounted to \$324,500.

From Tables 2 and 3, which divide the lake fleet into classes indicative of occupation or rig, it is seen that of the 22 steamers 5 were employed as side-wheel passenger carriers, having a gross tonnage of 3,011 tons and a value of \$215,000; 4 were propellers carrying both passengers and freight and had a tonnage of 76 tons and a value of \$10,000; 6 were tugs, with a gross tonnage of 652 tons and a value of \$61,000; there was 1 ferryboat of 5 tons and a value of \$1,500, and 3 pleasure yachts with a tonnage of 74 tons and a value of \$19,000; leaving 3 unclassified steamers of 318 tons aggregate tonnage and \$18,000 value. Of the 25 sailing vessels 22 are seen to be schooners and 3 sloops, the tonnage and value of the schooners being 1,747 tons and \$32,700, and the tonnage and value of the sloops being 178 tons and \$4,100.

The percentages given in Table 3 furnish several items of interest, the principal one, and the only one that need be noted here, being the preponderance in proportionate tonnage and value of the side-wheel passenger steamers, the 5 steamers so employed representing 49.68 or nearly 50 per cent of the total tonnage on the lake, both sailing vessels and steamers, and 59.51 per cent, or more than one-half of the value, of the Lake Champlain fleet.

MATERIALS OF CONSTRUCTION.

Looking at Tables 4 and 5, which show the relative use of iron and wood as materials of construction, it is seen that of the 47 craft reported on only 6 were of iron, their tonnage being 1,404 tons and their value \$109,000, leaving 41 wooden vessels with a tonnage of 4,657 tons and a value of \$252,300. When it comes to a question of averages, however, it is found that the average value per ton of the iron vessels was \$78 as against \$54 per ton of wooden vessels; while the average tonnage of the iron vessels was 234, and that of the wooden vessels 114.

The statistics of freight traffic which are found in Tables 6 and 7 show that during 1889 the total movement by the vessels employed in such operations was 1,760,549 tons; this amount, it should be understood, being the aggregate of the receipts and shipments at the various trading points on the lake—those trading points which were listed in a preceding paragraph.

PORT TRAFFIC AND CARGO TONNAGE.

In considering the traffic on the Great Lakes and St. Lawrence river it was stated to be "a problem in accurate statistics whether the aggregate of receipts and shipments does not show a larger movement than the actual returns of cargo tonnage would do", and a table was prepared (Table 16 in that report) in which there was set down the result of each commodity movement, either receipts or shipments, whichever happened to be the larger, and using this single amount to represent the cargo tonnage. By applying the same rule to the commerce of Lake Champlain it is found that the cargo tonnage amounted to 1,065,368 tons.

PORTS AND COMMODITIES.

In Table 7, which illustrates the freight movement by ports and commodities, the relative importance of these ports is fairly shown. Both as a shipping and receiving point, Whitehall, New York, easily leads, its shipments amounting to 540,000 tons and its receipts to 600,000 tons, a total movement of 1,140,000 tons. Rouses Point, New York, comes next, its receipts being 207,500 tons and its shipments 113,843 tons, making a total of 321,343 tons. The port of third importance is Otter Creek, Vermont, with shipments of 23,000 tons and receipts of 74,000 tons, a total of 97,000 tons. Other than the 3 ports mentioned, Plattsburg, New York, is the only port for which any returns for shipments were made. Table 7 also shows in a fair degree the principal commodities in whose traffic the different ports were engaged, although the reports showed far too much willingness on the part of those making them out to lump the traffic figures under the head of "Unclassified". Taking the 4 principal specified items of coal, iron ore, iron (pig and bloom), and lumber it is found that Plattsburg received the bulk of the coal, 7,875 tons, and that it also shipped iron ore to the amount of 27,135 tons. The business of Rouses Point seems to have principally consisted in the receipts of lumber, its figures standing at 197,500 tons out of a total of 277,223 tons of lumber received at all ports on the lake. Swanton, Vermont, is the only port making returns for the receipt of iron, the amount being 2,125 tons.

The returns of passenger traffic on Lake Champlain were quite unsatisfactory, the alleged reason being that nearly all the passengers were of the excursion class, of whom no record was kept, and indeed the only reports of passenger traffic received were those of 87,139 regular passengers, made by the steamer owners of Burlington, Vermont.

EARNINGS AND EXPENSES.

In Table 8 are given the figures which show how the business of transportation by water paid on Lake Champlain during 1889. The total figures indicate that the gross earnings of the operating mercantile fleet amounted to \$172,311, the expenses to \$141,599, leaving the net earnings at \$30,712. Out of these amounts the steamers made as gross earnings \$160,830 and paid out \$132,380, leaving a balance of \$28,450; while the sailing vessels made as gross earnings \$11,481 and paid out \$9,219, leaving the net earnings at \$2,262.

In Table 9 the total amount of expenses, \$141,599 given in Table 8, is reduced to the principal items making it up. The largest item was wages, that expense amounting to \$42,239; next to which came fuel (for the steamers), \$40,827. Provisions amounted to \$16,028; the current repairs to \$13,465; the office expenses to \$13,445; taxes to \$2,475; insurance to \$2,094; port charges to \$921; commissions to \$60; the balance of \$10,045 being set down to unspecified running and shore expenses.

In much the same way that the grand total of expenses given in Table 8 was divided into a number of items in Table 9, so the total of wages which formed one of the leading items in Table 9 is analyzed in Table 10, which treats of the monthly wages paid to the employés of those vessels which were in operation during 1889. The apparent contradiction between the statements made in Table 1, which sets the floating equipment of Lake Champlain at 47 vessels, and that made in Table 10, which sets the number of chief officers at 30, is due to the fact that in the one case the fleet referred to includes all registered craft whether in operation or not, while in the other case the report was only made for those vessels which were engaged in commercial operations.

Of these employés the steamer list embraces captains, first and second mates, clerks, first and second engineers, wheelmen, lookouts, watchmen, cooks and assistant cooks, seamen, deck hands, firemen, stewards, waiters, boys, and chambermaids; while the sailing vessel list includes captains, first mates, seamen, and cooks.

The number of each class of employés for the lake fleet is given for both steamers and sailing vessels in a comprehensive total, from which the subjoined summaries, with their calculated averages, are drawn:

STATEMENT SHOWING THE NUMBER OF ALL EMPLOYÉS CONSTITUTING THE ORDINARY CREWS OF THE OPERATING STEAMERS AND SAILING VESSELS ON LAKE CHAMPLAIN, TOGETHER WITH THEIR AGGREGATE AND AVERAGE MONTHLY WAGES.

STEAMERS.				STEAMERS—Continued.			
EMPLOYÉS.	Number employed.	Aggregate of wages for 1 month.	Average monthly wages.	EMPLOYÉS.	Number employed.	Aggregate of wages for 1 month.	Average monthly wages.
Total	173	\$6,769	\$39.13	Firemen	28	873	31.18
Captains	17	1,603	94.29	Stewards	4	248	62.00
First mates	12	555	46.25	Waiters	16	240	15.00
Second mates	3	75	25.00	Boys	1	15	15.00
Clerks	2	110	55.00	Chambermaids	4	60	15.00
First engineers	17	1,030	60.59	SAILING VESSELS.			
Second engineers	12	478	39.83	Total	35	1,002	28.63
Wheelmen	11	253	42.17	Captains	13	580	44.62
Lookouts	1	16	16.00	First mates	1	120	24.00
Watchmen	3	60	20.00	Seamen	11	210	19.09
Cooks	15	439	29.27	Cooks	6	92	15.33
Assistant cooks	2	36	18.00				
Seamen	6	156	26.00				
Deck hands	24	522	21.75				

Should a comparison be made between the wages paid on Lake Champlain and those paid on the Great Lakes and St. Lawrence river it will be seen that the average in every case is considerably lower on the smaller sheet of water, the general average being \$48.79 in the other locality against \$37.36 on Lake Champlain, the detailed averages being as follows:

STATEMENT SHOWING THE AVERAGE MONTHLY WAGES PAID TO ALL CLASSES OF EMPLOYÉS ON THE OPERATING STEAMERS AND SAILING VESSELS ON LAKE CHAMPLAIN, COMPARED WITH THOSE PAID ON THE GREAT LAKES AND ST. LAWRENCE RIVER.

STEAMERS.			STEAMERS—Continued.		
EMPLOYÉS.	Average monthly wages on Lake Champlain.	Average monthly wages on the Great Lakes and St. Lawrence river.	EMPLOYÉS.	Average monthly wages on Lake Champlain.	Average monthly wages on the Great Lakes and St. Lawrence river.
Average monthly wages of all steamer employés.	\$39.13	\$49.73	Firemen	31.18	36.51
Captains	94.29	109.15	Stewards	62.00	59.43
First mates	46.25	71.56	Waiters	15.00	20.44
Second mates	25.00	58.00	Boys	15.00	18.30
Clerks	55.00	60.25	Chambermaids	15.00	22.39
First engineers	60.59	87.34	SAILING VESSELS.		
Second engineers	39.83	62.24	Average monthly wages of all sailing vessel employés.	\$28.63	\$46.70
Wheelmen	42.17	36.01	Captains	44.62	75.18
Lookouts	16.00	33.77	First mates	24.00	52.14
Watchmen	20.00	32.97	Seamen	19.09	38.39
Cooks	29.27	51.54	Cooks	15.33	35.68
Assistant cooks	18.00	20.98			
Seamen	26.00	35.96			
Deck hands	21.75	23.70			

Another interesting total of Table 10 shows that while the number of persons making up the ordinary crews of the operating vessels on Lake Champlain in 1889 was 208, there were 269 persons to whom whole or partial employment was given during the same year, and that the total wages paid per working month was \$7,771.

FUEL ACCOUNT.

In Table 11 there will be found set down the amounts of coal burned by all the operating mercantile steamers during 1889, together with the cost of the fuel. As was seen when considering Table 9 the cost of coal figures as an item of the expense account to the extent of \$40,827, and in the present table it will be found that the amount burned was 10,910 tons; that the passenger and freight steamers burned 5,787 tons, costing \$20,831; that the towboats burned 3,400 tons, costing \$13,922, and that the miscellaneous steam craft consumed 1,723 tons of coal, costing \$6,074.

COMPARATIVE STATISTICS.

As was stated when considering the "Plan of the tables", the comparative statistics found in Tables 12 to 16, inclusive, have been gathered from the reports of the Bureau of Navigation, and before proceeding to consider them it will be well to point out that the difference between the fleet of 1889 reported by the Census Office and that reported by the Commissioner of Navigation, is due to the fact that in the Commissioner's figures there are included certain unrigged craft which have not been given a place in the census report, and to a somewhat different method of classification. The totals of the Commissioner's report are 53 craft, with a tonnage of 6,490.85 tons, made up of 19 steamers, with a tonnage of 4,102.38 tons, and 34 sailing vessels, with a tonnage of 2,388.47 tons, while the total of Table 1 places the Champlain fleet at 47 craft, with a tonnage of 6,061 tons, made up of 22 steamers, with a tonnage of 4,136 tons, and 25 sailing vessels, with a tonnage of 1,925 tons. The yearly details of Table 12 form an interesting record, but the pith of the subject is presented in the recapitulation for the 10 years. No clearer presentation of the gradual change in the class of the craft in use on the lake can be made than is found in this recapitulation, for while the number of the vessels composing the fleet has dropped from 63 in 1880 to 53 in 1889, the tonnage has increased from 5,247.86 to 6,490.85 tons. The explanation of the increased tonnage is found in the statistics of the two columns treating respectively of steamers and sailing vessels, for here it is seen that while the sailing vessels have dropped from 44, with a tonnage of 2,667.62 tons, in 1880 to 34, with a tonnage of 2,388.47 tons, in 1889, the steamers of 1880, which numbered 19, had a tonnage of 2,580.24 tons, while the steamers in 1889, with the same number, 19, had a tonnage of 4,102.38 tons.

CHANGES IN EQUIPMENT.

In Table 13 these changes in number and tonnage are further treated of, the statement showing that in 1880 the average tonnage of the steamers of the Vermont district was 219 tons, while in 1889 it had risen to 345 tons and that the tonnage of the steamers of the Champlain district had risen from 87 tons in 1880 to 100 tons in 1889. Further, that while the average tonnage of the sailing vessels of the Champlain district remained stationary at 64 tons, that of the sailing vessels of the Vermont district had risen from 55 tons to 85 tons; the average tonnage of the combined fleet rising from 71 tons for the Champlain district in 1880 to 75 tons in 1889, and from 103 tons for the Vermont district in 1880 to 208 tons in 1889.

Table 14 is but a continuation, or rather an elaboration of Table 13; presenting as it does the years in which the number and tonnage of the lake fleet ran the highest above and the lowest below the average standard. The great changes, as has been said, are observable in the district of Vermont. Here the annual average number of vessels registered was 23, while the annual average tonnage was 3,416 tons; the year of highest registered number was 1881, when the number was 30, while the year of highest registered tonnage was 1888, when the tonnage was 4,169 tons. Conversely it is seen that the year of lowest registered number was 1889 with 19 registered vessels, while the year of lowest registered tonnage was 1880, when the tonnage was 2,469 tons. The year in which the number of registrations was closest to the average was 1883, when the number was 23, and the year in which the registered tonnage was closest to the average was 1882, when it was 3,402 tons. The fluctuation of number, by the by, was 11 and that of tonnage was 1,700 tons. The annual average number of registrations for the district of Champlain was 36, the fluctuation being 9; while the annual average registered tonnage was 2,645 tons, with a fluctuation of 614 tons.

SHIPBUILDING.

In Table 15, which gives the Commissioner's report of the shipbuilding in the two districts of Champlain and Vermont for the 10 years 1880-1889, additional facts are found explaining the extensive fluctuations in the registration of the Vermont district. From this table the following summary can be collated:

STATEMENT SHOWING THE NUMBER AND TONNAGE OF STEAMERS AND SAILING VESSELS BUILT IN THE TWO DISTRICTS OF CHAMPLAIN AND VERMONT DURING THE 10 YEARS 1880-1889.

DISTRICTS.	STEAMERS.		SAILING VESSELS.		TOTAL.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Both districts.....	6	1,484.20	7	546.66	13	2,030.86
Champlain.....	2	199.93	5	415.30	7	615.23
Vermont.....	4	1,284.27	2	131.36	6	1,415.63

Table 16 is devoted to an analysis of steamer building, with especial reference to the methods of propulsion adopted. The whole number of steamers built in the 10 years was 6, with a tonnage of 1,484.20, and of these, as the recapitulation shows, 4 were propellers, with a tonnage of 243.12 tons, and 2 were side-wheel steamers, with a tonnage of 1,241.08 tons. No stern-wheel steamers were built.

CONGRESSIONAL APPROPRIATIONS.

The earliest appropriation made by the government for the improvement of Lake Champlain was in 1836, when improvements were effected at Burlington, Plattsburg, and Whitehall harbors, and when a general survey of the lake was made, the appropriations for that year amounting to \$620,352. Since that time other localities have been improved and other amounts have been appropriated, the total amount up to and including the act of Congress of September, 1890, being \$1,123,352, as is shown in Table 17, while the subjoined descriptive list shows what has been done under the appropriations:

BURLINGTON HARBOR.—The first project for the improvement of this harbor was probably adopted in 1836. Modifications of the original plan have been made from time to time so as to afford adequate protection to the increasing commercial and shipping interests of the harbor. The improvements now embrace a breakwater of good dimensions and a well protected entrance.

GORDONS LANDING.—The object of the improvement here has been the construction of a breakwater out to the 16-foot curve for the protection of the landing.

GREAT CHAZY RIVER.—The appropriation made by the Congressional act of 1890 was for the purpose of improving this river from the mouth, on Lake Champlain, to Champlain village.

OTTER CREEK.—The project of this improvement adopted in 1872 has been the formation of a channel from Vergennes to Lake Champlain of good navigable width, and with 8 feet of water.

PLATTSBURG HARBOR.—The improvements here consisted of a breakwater running out some 1,200 feet, built for the protection of the steamboat docks.

ROUSES POINT.—Like nearly all the improvements on Lake Champlain, that at this place has consisted of the erection of a curved breakwater 2,000 feet long.

SURVEY.—This survey was made in 1836 and 1838, the principal localities being the Narrows and the channel between North and South Hero islands.

SWANTON HARBOR.—Swanton harbor has been really formed by the construction of protecting breakwaters inclosing a portion of the lake.

TICONDEROGA RIVER.—The project of this improvement, adopted in 1881, was the formation of a channel of navigable width and a least depth of 8 feet at low water between the falls of Ticonderoga village and Lake Champlain, a distance of 2 miles.

WHITEHALL HARBOR.—Little has been done in this vicinity except a survey.

STATISTICS OF TRANSPORTATION.

EQUIPMENT, OCCUPATION, AND CONSTRUCTION.

TABLE 1.—EQUIPMENT OF FLEETS IN GENERAL—NUMBER, TONNAGE, AND VALUE OF ALL STEAMERS AND SAILING VESSELS FORMING THE LAKE FLEET, AND CREDITED TO THEIR PORTS OF REGISTRATION.

PORTS.	TOTAL OF ALL CRAFT.			STEAMERS.			SAILING VESSELS.		
	Number.	Gross tonnage.	Valuation.	Number.	Gross tonnage.	Valuation.	Number.	Gross tonnage.	Valuation.
Total for lake	47	6,061	\$361,300	22	4,136	\$324,500	25	1,925	\$36,800
Burlington, Vermont	21	3,880	254,100	12	3,128	240,500	9	752	13,800
Plattsburg, New York	26	2,181	107,200	10	1,008	84,000	16	1,173	23,200

TABLE 2.—EQUIPMENT OF FLEETS BY CLASSES—NUMBER, TONNAGE, AND VALUE OF THE LAKE STEAMERS AND SAILING VESSELS REPORTED ON IN THE PRECEDING TABLE, BUT DIVIDED INTO CLASSES INDICATIVE OF OCCUPATION AND RIG.

PORTS.	TOTAL EQUIPMENT.			STEAMERS.												SAILING VESSELS.					
				Side-wheel passenger.			Propellers carrying both passengers and freight.			Tugs.			All other classes.			Schooners.			Sloops.		
	No.	Gross tonnage.	Valuation.	No.	Gross tonnage.	Valuation.	No.	Gross tonnage.	Valuation.	No.	Gross tonnage.	Valuation.	No.	Gross tonnage.	Valuation.	No.	Gross tonnage.	Valuation.			
Total.....	47	6, 061	\$361, 300	5	3, 011	\$215, 000	4	76	\$10, 000	6	652	\$61, 000	7	397	\$38, 500	22	1, 747	\$32, 700	3	178	\$4, 100
Burlington, Vermont.	21	3, 880	254, 100	5	3, 011	215, 000	3	88	5, 000	-----	-----	-----	4	79	20, 500	8	709	12, 900	1	43	700
Plattsburg, New York.	26	2, 181	107, 200	-----	-----	-----	1	38	5, 000	6	652	61, 000	3	318	18, 000	14	1, 038	19, 800	2	135	3, 400

TABLE 3.—PERCENTAGES OF TONNAGE AND VALUATION—NUMBER, GROSS AND NET TONNAGE, ESTIMATED CARRYING CAPACITY, VALUATION, AND VALUE PER GROSS TON OF ALL STEAMERS AND SAILING VESSELS, ARRANGED BY PERCENTAGES OF TONNAGE AND VALUATION APPLIED TO ALL CRAFT, GROUPED BY OCCUPATIONS.

CLASSES OF VESSELS.	Number.	TONNAGE.				VALUATION.		
		Gross.	Percentage of total tonnage on lake.	Net.	Estimated carrying capacity.	Commercial.	Percentage of valuation on lake.	Per ton gross.
All classes	47	6,061	100.00	4,724	7,475	\$361,300	100.00	\$60
Steamers:								
Side-wheel passenger	5	3,011	49.68	2,344	3,449	215,000	59.51	71
Propellers carrying both passengers and freight	4	76	1.25	39	19	10,000	2.77	132
Tugs	6	652	10.76	325	358	61,000	16.88	94
Ferry	1	5	0.08	5	2	1,500	0.42	300
Pleasure yachts	3	74	1.22	46	24	19,000	5.26	257
Unclassified steam vessels	3	318	5.25	179	86	18,000	4.98	57
Sailing vessels:								
Schooners	22	1,747	28.82	1,616	3,220	32,700	9.05	19
Sloops	3	178	2.94	170	323	4,100	1.13	23

TABLE 4.—CONSTRUCTION BY LOCALITIES—MATERIAL, NUMBER, TONNAGE, VALUE IN GENERAL, VALUE PER TON, AND AVERAGE TONNAGE OF ALL THE LAKE FLEET ENTERED FOR EACH PORT.

LAKES AND PORTS.	Material.	Number.	Gross tonnage.	Valuation.	Average valuation per ton.	Average tonnage.
Lake Champlain .....	.....	47	6,061	\$361,300	\$60	129
Burlington, Vermont	Iron	1	743	55,000	74	743
Plattsburg, New York	Wood	20	3,137	199,100	63	157
	Iron	5	661	54,000	82	132
	Wood	21	1,520	53,200	35	72

EQUIPMENT, OCCUPATION, AND CONSTRUCTION—Continued.

TABLE 5.—CONSTRUCTION BY MATERIALS—MATERIAL, NUMBER, TONNAGE, GENERAL VALUE AND AVERAGES OF VALUE, AND TONNAGE OF ALL THE LAKE FLEET ENTERED FOR EACH PORT, GROUPED TO SHOW THE TOTALS FOR EACH MATERIAL OF CONSTRUCTION, WHETHER IRON OR WOOD.

LAKES AND PORTS.	Number.	Gross tonnage.	Valuation.	Average valuation per ton.	Average tonnage.
Total Lake Champlain	47	6,061	\$361,300	\$60	129
IRON.					
Lake Champlain	6	1,404	100,000	78	234
Burlington, Vermont.....	1	743	55,000	74	743
Plattsburg, New York.....	5	661	54,000	32	132
WOOD.					
Lake Champlain.....	41	4,657	252,300	54	114
Burlington, Vermont.....	20	3,137	190,100	63	157
Plattsburg, New York.....	21	1,520	53,200	35	72

TRAFFIC OPERATIONS.

TABLE 6.—FREIGHT MOVEMENT IN GENERAL—RECEIPTS, SHIPMENTS, TOTAL MOVEMENT, EXCESS OF RECEIPTS OVER SHIPMENTS, AND EXCESS OF SHIPMENTS OVER RECEIPTS OF THE FREIGHT MOVEMENT, CLASSED BY PRINCIPAL PRODUCTS, TOGETHER WITH PERCENTAGES OF TRAFFIC APPLIED TO THE COMMODITIES.

COMMODITIES.	RECEIPTS.		SHIPMENTS.		TOTAL MOVEMENT.		Excess of receipts over shipments. (Tons.)	Excess of shipments over receipts. (Tons.)
	Amount in tons.	Per cent of total traffic.	Amount in tons.	Per cent of total traffic.	Amount in tons.	Per cent of total traffic.		
Total	1,047,858	100.00	712,691	100.00	1,760,549	100.00	335,167	.....
Class I.—Products of agriculture.....								
Wheat								
Corn								
Other grains.....								
Mill products.....								
All other farm products								
Class II.—Products of mines and quarries.....	9,625	0.92	27,135	3.81	36,760	2.09		17,510
Coal	9,625	0.92	27,135	3.81	9,625	0.55	9,625	
Iron ore.....					27,135	1.54		27,135
Stone, of all kinds								
Salt								
Other products of mines and quarries								
Class III.—Other products.....	277,223	26.46	8,663	1.21	285,886	16.24	268,560	.....
Animal products								
Lumber	277,223	26.46	8,663	1.21	285,886	16.24	268,560	.....
Class IV.—Manufactures, miscellaneous merchandise, and other commodities.....	761,010	72.62	676,893	94.98	1,437,903	81.67	84,117	.....

TABLE 7.—FREIGHT MOVEMENT BY PORTS AND COMMODITIES—RECEIPTS, SHIPMENTS, AND TOTAL MOVEMENT OF THE LAKE FREIGHT, GROUPED ACCORDING TO AN EXTENDED LIST OF COMMODITIES, AND ALLOTTED TO THE EIGHT PRINCIPAL PORTS OF TRADE.

LAKES AND PORTS.	Total.	PRODUCTS OF MINES AND QUARRIES.		Lumber.	Manufactures of iron, pig and bloom.	Miscellaneous merchandise and other commodities.
		Coal and coke.	Iron ore.			
Total receipts and shipments	1,760,549	9,625	27,135	285,886	2,125	1,435,778
Lake Champlain:						
Rouses Point, New York.....	321,343			197,500		123,843
Gordons Landing, Vermont.....	1,500					1,500
Plattsburg, New York.....	43,848	7,875	27,135	8,663		175
Burlington, Vermont.....	79,823			79,723		100
Otter Creek, Vermont.....	97,000					97,000
Ticonderoga, New York.....	65,000					65,000
Whitehall, New York.....	1,140,000					1,140,000
Swanton, Vermont.....	12,035	1,750			2,125	8,160
Receipts	1,047,858	9,625		277,223	2,125	758,885
Rouses Point, New York.....	207,500			197,500		10,000
Gordons Landing, Vermont.....	1,500					1,500
Plattsburg, New York.....	8,000	7,875				125
Burlington, Vermont.....	79,823			79,723		100
Otter Creek, Vermont.....	74,000					74,000
Ticonderoga, New York.....	65,000					65,000
Whitehall, New York.....	600,000					600,000
Swanton, Vermont.....	12,035	1,750			2,125	8,160
Shipments.....	712,691		27,135	8,663		676,893
Rouses Point, New York.....	113,843					113,843
Gordons Landing, Vermont.....						
Plattsburg, New York.....	35,848		27,135	8,663		50
Burlington, Vermont.....						
Otter Creek, Vermont.....	23,000					23,000
Ticonderoga, New York.....						
Whitehall, New York.....	540,000					540,000
Swanton, Vermont.....						

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EARNINGS AND EXPENSE ACCOUNTS.

TABLE 8.—FINANCIAL ACCOUNT IN GENERAL—GROSS EARNINGS, EXPENSES, AND NET EARNINGS OF ALL THE OPERATING LAKE CRAFT, GIVEN BY STEAMERS AND SAILING VESSELS, AND ENTERED FOR EACH PORT OF REGISTER.

STEAMERS AND SAILING VESSELS.

LAKES AND PORTS.		Gross earnings.	Expenses.	Net earnings.
Lake Champlain.....		\$172,311	\$141,599	\$30,712
Burlington, Vermont.....		93,971	75,302	18,669
Plattsburg, New York.....		78,340	66,297	12,043
STEAMERS.				
Lake Champlain.....		160,830	132,380	28,450
Burlington, Vermont.....		89,860	72,602	17,258
Plattsburg, New York.....		70,970	59,778	11,192
SAILING VESSELS.				
Lake Champlain.....		11,481	9,219	2,262
Burlington, Vermont.....		4,111	2,700	1,411
Plattsburg, New York.....		7,370	6,519	851

TABLE 9.—EXPENSE ACCOUNT IN DETAIL—ITEMIZED EXPENSE ACCOUNT OF ALL THE OPERATING LAKE CRAFT, GIVEN BY STEAMERS AND SAILING VESSELS, SUBDIVIDED INTO THE VARIOUS ITEMS CONSTITUTING THE RUNNING AND SHORE EXPENSES, AND ENTERED FOR EACH PORT OF REGISTER.

STEAMERS AND SAILING VESSELS.

LAKE AND PORTS.	Total expenses.	Port charges.	Wages.	Provisions.	Current repairs.	Fuel for the steamers.	Other running expenses.	Commission.	Insurance.	Taxes.	Office expenses.	Other shore expenses.
Lake Champlain.....	\$141,599	\$921	\$42,239	\$16,028	\$13,465	\$40,827	\$8,938	\$60	\$2,094	\$2,475	\$13,445	\$1,107
Burlington, Vermont....	75,302	7	25,737	12,283	7,072	20,313	4,158	-----	1,476	1,596	2,000	660
Plattsburg, New York...	66,297	914	16,502	3,745	6,393	20,514	4,780	60	618	879	11,445	447
STEAMERS.												
Lake Champlain.....	132,380	467	36,619	14,524	12,346	40,827	8,651	-----	2,054	2,450	13,445	997
Burlington, Vermont....	72,602	7	23,922	11,798	6,868	20,313	4,012	-----	1,436	1,586	2,000	660
Plattsburg, New York...	59,778	460	12,697	2,726	5,478	20,514	4,639	-----	618	864	11,445	337
SAILING VESSELS.												
Lake Champlain.....	9,219	454	5,620	1,504	1,119	-----	287	60	40	25	-----	110
Burlington, Vermont....	2,700	-----	1,815	485	204	-----	146	-----	40	10	-----	-----
Plattsburg, New York...	6,519	454	3,805	1,019	915	-----	141	60	-----	15	-----	110

EARNINGS AND EXPENSE ACCOUNTS—Continued.

TABLE 10.—EMPLOYÉS AND WAGES—MONTHLY WAGES PAID TO ALL EMPLOYÉS OF THE OPERATING LAKE CRAFT ENTERED FOR STEAMERS AND SAILING VESSELS, AND ALLOTTED TO EACH PORT OF REGISTER.

STEAMERS AND SAILING VESSELS.

LAKE AND PORTS.	CAPTAINS.		FIRST MATES.		SECOND MATES.		CLERKS.		FIRST ENGINEERS.		SECOND ENGINEERS.		WHEELMEN.		LOOKOUTS.		WATCHMEN.		COOKS.	
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.
Lake Champlain ...	30	\$2,183	17	\$675	3	\$75	2	\$110	17	\$1,030	12	\$478	6	\$253	1	\$16	3	\$60	21	\$531
Burlington, Vermont.	16	1,317	10	410	3	75	2	110	12	780	7	278	5	203	1	16	3	60	14	398
Plattsburg, New York.	14	800	7	265					5	250	5	200	1	50					7	133

LAKE AND PORTS.	ASSISTANT COOKS.		SEAMEN.		DECK HANDS.		FIREMEN.		STEWARDS.		WAITERS.		BOYS.		CHAMBER-MAIDS.		Number persons making ordinary crew.	Number persons given employment during year.	Total wages paid per month.	Average rate of wages per month.
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.				
Lake Champlain ...	2	\$36	17	\$366	24	\$522	28	\$873	4	\$248	16	\$240	1	\$15	4	\$60	208	209	\$7,771	\$37.36
Burlington, Vermont.	2	36	11	221	19	387	18	569	4	248	16	240	1	15	4	60	146	175	5,423	37.14
Plattsburg, New York.			8	145	5	135	10	304									62	94	2,348	37.87

STEAMERS.

LAKE AND PORTS.	CAPTAINS.		FIRST MATES.		SECOND MATES.		CLERKS.		FIRST ENGINEERS.		SECOND ENGINEERS.		WHEELMEN.		LOOKOUTS.		WATCHMEN.		COOKS.	
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.
Lake Champlain ...	17	\$1,603	12	\$555	3	\$75	2	\$110	17	\$1,030	12	\$478	6	\$253	1	\$16	3	\$60	15	\$439
Burlington, Vermont.	12	1,157	8	355	3	75	2	110	12	780	7	278	5	203	1	16	3	60	10	332
Plattsburg, New York.	5	446	4	200					5	250	5	200	1	50					5	107

LAKE AND PORTS.	ASSISTANT COOKS.		SEAMEN.		DECK HANDS.		FIREMEN.		STEWARDS.		WAITERS.		BOYS.		CHAMBER-MAIDS.		Number persons making ordinary crew.	Number persons given employment during year.	Total wages paid per month.	Average rate of wages per month.
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.				
Lake Champlain ...	2	\$36	6	\$156	24	\$522	28	\$873	4	\$248	16	\$240	1	\$15	4	\$60	173	216	\$6,769	\$39.13
Burlington, Vermont.	2	36	6	156	19	387	18	569	4	248	16	240	1	15	4	60	133	158	5,077	38.17
Plattsburg, New York.					5	135	10	304									40	58	1,692	42.30

TRANSPORTATION ON LAKE CHAMPLAIN.

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EARNINGS AND EXPENSE ACCOUNTS—Continued.

TABLE 10.—EMPLOYEES AND WAGES—Continued.

SAILING VESSELS.

LAKE AND PORTS.	CAPTAINS.		FIRST MATES.		SECOND MATES.		CLERKS.		FIRST ENGINEERS.		SECOND ENGINEERS.		WHEELMEN.		LOOKOUTS.		WATCHMEN.		COOKS.	
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.
Lake Champlain	13	\$580	5	\$120															6	\$92
Burlington, Vermont.	4	160	2	55															4	66
Plattsburg, New York.	9	420	3	65															2	26

LAKE AND PORTS.	ASSISTANT COOKS.		SEAMEN.		DECK HANDS.		FIREMEN.		STEWARDS.		WAITERS.		BOYS.		CHAMBER-MAIDS.		Number persons making ordinary crew.	Number persons given employment during year.	Total wages paid per month.	Average rate wages per month.
	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.	No.	Monthly wages.				
Lake Champlain			11	\$210													35	53	\$1,002	\$28.63
Burlington, Vermont.			3	65													13	17	346	26.62
Plattsburg, New York.			8	145													22	36	656	29.82

TABLE 11.—FUEL ACCOUNT—AMOUNT AND VALUE OF THE COAL USED FOR FUEL ON ALL THE OPERATING LAKE STEAMERS, WITH SEPARATE ENTRIES UNDER THE HEADS OF CLASSIFIED OCCUPATIONS.

LAKES AND PORTS.	Tons of coal.	Cost of fuel.	PASSENGER, PASSENGER AND FREIGHT, AND FREIGHT.		TOWBOATS.		MISCELLANEOUS.	
			Coal, in tons.	Value.	Coal, in tons.	Value.	Coal, in tons.	Value.
Lake Champlain	10,910	\$40,827	5,787	\$20,831	3,400	\$13,922	1,723	\$6,074
Burlington, Vermont	5,862	20,313	5,287	18,831			575	1,482
Plattsburg, New York	5,048	20,514	500	2,000	3,400	13,922	1,148	4,592

STATISTICS OF TRANSPORTATION.

COMPARATIVE STATISTICS.

TABLE 12.—FLEETS FOR THE TEN YEARS, 1880-1889—NUMBER AND TONNAGE OF ALL STEAMERS AND SAILING VESSELS REGISTERED IN THE CUSTOMS DISTRICTS OF LAKE CHAMPLAIN FOR THE DECADE 1880-1889.

CUSTOMS DISTRICTS.	1880						1881					
	TOTAL.		STEAMERS.		SAILING VESSELS.		TOTAL.		STEAMERS.		SAILING VESSELS.	
	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.
Total.....	63	5,247.86	19	2,580.24	44	2,667.62	67	6,028.15	18	2,863.85	49	3,164.30
Vermont, Vermont.....	24	2,468.88	7	1,531.02	17	937.86	30	3,333.40	8	1,901.15	22	1,432.25
Champlain, New York.....	39	2,778.98	12	1,049.22	27	1,729.76	37	2,694.75	10	962.70	27	1,732.05

CUSTOMS DISTRICTS.	1882						1883					
	TOTAL.		STEAMERS.		SAILING VESSELS.		TOTAL.		STEAMERS.		SAILING VESSELS.	
	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.
Total.....	60	5,829.52	19	3,289.20	41	2,540.32	60	6,104.64	19	3,384.95	41	2,719.69
Vermont, Vermont.....	28	3,402.04	11	2,422.03	17	980.01	23	3,458.67	7	2,308.30	16	1,150.37
Champlain, New York.....	32	2,427.48	8	867.17	24	1,560.31	37	2,645.97	12	1,076.65	25	1,569.32

CUSTOMS DISTRICTS.	1884						1885					
	TOTAL.		STEAMERS.		SAILING VESSELS.		TOTAL.		STEAMERS.		SAILING VESSELS.	
	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.
Total.....	60	6,206.98	21	3,493.94	39	2,713.04	61	6,239.26	21	3,493.94	40	2,745.32
Vermont, Vermont.....	21	3,393.78	8	2,318.41	13	1,075.37	21	3,380.12	8	2,318.41	13	1,061.71
Champlain, New York.....	39	2,813.20	13	1,175.53	26	1,637.67	40	2,859.14	13	1,175.53	27	1,683.61

CUSTOMS DISTRICTS.	1886						1887					
	TOTAL.		STEAMERS.		SAILING VESSELS.		TOTAL.		STEAMERS.		SAILING VESSELS.	
	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.
Total.....	62	6,276.96	22	3,531.64	40	2,745.32	52	5,600.31	18	3,188.55	34	2,411.76
Vermont, Vermont.....	21	3,329.59	9	2,333.92	12	995.67	20	3,266.57	9	2,333.92	11	932.65
Champlain, New York.....	41	2,947.37	13	1,197.72	28	1,749.65	32	2,333.74	9	854.63	23	1,479.11

CUSTOMS DISTRICTS.	1888						1889					
	TOTAL.		STEAMERS.		SAILING VESSELS.		TOTAL.		STEAMERS.		SAILING VESSELS.	
	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.
Total.....	54	6,581.44	19	4,102.38	35	2,479.06	53	6,490.85	19	4,102.38	34	2,388.47
Vermont, Vermont.....	22	4,169.12	9	3,105.63	13	1,063.49	19	3,958.23	9	3,105.63	10	852.60
Champlain, New York.....	32	2,412.32	10	996.75	22	1,415.57	34	2,532.62	10	996.75	24	1,535.87

RECAPITULATION.

YEARS.	TOTAL.		STEAMERS.		SAILING VESSELS.		YEARS.	TOTAL.		STEAMERS.		SAILING VESSELS.	
	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.		Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.
1880.....	63	5,247.86	19	2,580.24	44	2,667.62	1885.....	61	6,239.26	21	3,493.94	40	2,745.32
1881.....	67	6,028.15	18	2,863.85	49	3,164.30	1886.....	62	6,276.96	22	3,531.64	40	2,745.32
1882.....	60	5,829.52	19	3,289.20	41	2,540.32	1887.....	52	5,600.31	18	3,188.55	34	2,411.76
1883.....	60	6,104.64	19	3,384.95	41	2,719.69	1888.....	54	6,581.44	19	4,102.38	35	2,479.06
1884.....	60	6,206.98	21	3,493.94	39	2,713.04	1889.....	53	6,490.85	19	4,102.38	34	2,388.47

COMPARATIVE STATISTICS—Continued.

TABLE 13.—VESSEL TONNAGES FOR THE 10 YEARS, 1880-1889—NUMBER, AGGREGATE AND AVERAGE TONNAGE OF ALL STEAMERS AND SAILING VESSELS REGISTERED AT THE CUSTOMS DISTRICTS OF LAKE CHAMPLAIN FOR THE DECADE 1880-1889.

STEAMERS.

CUSTOMS DISTRICTS.	1880			1881			1882			1883			1884		
	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.
Vermont, Vermont.....	7	1,531	219	8	1,901	238	11	2,422	220	7	2,308	330	8	2,319	290
Champlain, New York.....	12	1,049	87	10	963	96	8	867	108	12	1,077	90	13	1,175	90

CUSTOMS DISTRICTS.	1885			1886			1887			1888			1889		
	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.
Vermont, Vermont.....	8	2,318	290	9	2,334	259	9	2,334	259	9	3,106	345	9	3,106	345
Champlain, New York.....	13	1,175	90	13	1,198	92	9	854	95	10	997	100	10	997	100

SAILING VESSELS.

CUSTOMS DISTRICTS.	1880			1881			1882			1883			1884		
	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.
Vermont, Vermont.....	17	938	55	22	1,432	65	17	980	58	16	1,151	72	13	1,075	83
Champlain, New York.....	27	1,730	64	27	1,732	64	24	1,561	65	25	1,569	63	26	1,638	63

CUSTOMS DISTRICTS.	1885			1886			1887			1888			1889		
	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.
Vermont, Vermont.....	13	1,062	82	12	996	83	11	933	85	13	1,063	82	10	852	85
Champlain, New York.....	27	1,684	62	28	1,749	63	23	1,479	64	22	1,415	64	24	1,536	64

STEAMERS AND SAILING VESSELS.

CUSTOMS DISTRICTS.	1880			1881			1882			1883			1884		
	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.
Vermont, Vermont.....	24	2,469	103	30	3,333	111	28	3,402	122	23	3,459	150	21	3,394	162
Champlain, New York.....	39	2,779	71	37	2,695	73	32	2,428	76	37	2,646	72	39	2,813	72

CUSTOMS DISTRICTS.	1885			1886			1887			1888			1889		
	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.	Num- ber.	Tonnage.	Aver- age.
Vermont, Vermont.....	21	3,380	161	21	3,330	159	20	3,267	163	22	4,169	190	19	3,958	208
Champlain, New York.....	40	2,859	71	41	2,947	72	32	2,333	73	32	2,412	75	34	2,533	75

STATISTICS OF TRANSPORTATION.

COMPARATIVE STATISTICS—Continued.

TABLE 14.—TONNAGE FLUCTUATIONS FOR THE 10 YEARS, 1880-1889—AVERAGE ANNUAL NUMBER AND TONNAGE OF ALL STEAMERS AND SAILING VESSELS REGISTERED AT THE CUSTOMS DISTRICTS OF LAKE CHAMPLAIN FOR THE DECADE 1880-1889, TOGETHER WITH THE INDICATED YEARS OF HIGHEST, LOWEST, AND MEAN REGISTRATION.

STEAMERS.

CUSTOMS DISTRICTS.	Annual average number of vessels registered.	HIGHEST ABOVE AVERAGE.		LOWEST BELOW AVERAGE.		CLOSEST TO AVERAGE.		Fluctuation.	Annual average registered tonnage.	HIGHEST ABOVE AVERAGE.		LOWEST BELOW AVERAGE.		CLOSEST TO AVERAGE.		Fluctuation.
		Year.	Number.	Year.	Number.	Year.	Number.			Year.	Number of tons.	Year.	Number of tons.	Year.	Number of tons.	
Vermont, Vermont	9	1882	11	1880	7	1886	9	4	2,368	1888	3,106	1880	1,531	1886	2,334	1,575
Champlain, New York	11	1884	13	1882	8	1880	12	5	1,035	1886	1,198	1887	854	1880	1,049	344

SAILING VESSELS.

Vermont, Vermont	14	1881	22	1889	10	1884	13	12	1,048	1881	1,432	1889	852	1885	1,062	580
Champlain, New York	25	1886	28	1888	22	1883	25	6	1,609	1886	1,749	1888	1,415	1884	1,638	334

STEAMERS AND SAILING VESSELS.

Vermont, Vermont	23	1881	30	1889	19	1883	23	11	3,416	1888	4,169	1880	2,469	1882	3,402	1,700
Champlain, New York	36	1886	41	1882	32	1881	37	9	2,645	1886	2,947	1887	2,333	1883	2,646	614

TABLE 15.—SHIPBUILDING DURING THE 10 YEARS, 1880-1889 (GENERAL)—NUMBER AND TONNAGE OF ALL STEAMERS AND SAILING VESSELS BUILT IN THE CUSTOMS DISTRICTS OF LAKE CHAMPLAIN FOR THE DECADE 1880-1889.

YEARS.	CUSTOMS DISTRICTS.	STEAMERS.		SAILING VESSELS.		YEARS.	CUSTOMS DISTRICTS.	STEAMERS.		SAILING VESSELS.	
		Num-ber.	Ton-nage.	Num-ber.	Ton-nage.			Num-ber.	Ton-nage.	Num-ber.	Ton-nage.
1880.....	Champlain, New York	2	199.93	1	20.39	1886.....	Vermont, Vermont	1	37.70	.....	.....
1882.....	Vermont, Vermont	2	503.82	.....	.....	1887.....	Champlain, New York .....	.....	.....	1	98.71
1883.....	Champlain, New York .....	.....	.....	3	296.20	1888.....	Vermont, Vermont	1	742.75	.....	.....
1885.....	Vermont, Vermont .....	.....	.....	2	131.36						

RECAPITULATION.

YEARS.	TOTAL.		STEAMERS.		SAILING VESSELS.		YEARS.	TOTAL.		STEAMERS.		SAILING VESSELS.	
	Num-ber.	Tonnage.	Num-ber.	Tonnage.	Num-ber.	Tonnage.		Num-ber.	Tonnage.	Num-ber.	Tonnage.	Num-ber.	Tonnage.
Total	13	2,030.86	6	1,484.20	7	546.66							
1880.....	3	220.32	2	199.93	1	20.39	1885.....	2	131.36	.....	.....	2	131.36
1882.....	2	503.82	2	503.82	.....	.....	1886.....	1	37.70	1	37.70	.....	.....
1883.....	3	296.20			3	296.20	1887.....	1	98.71			1	98.71
							1888.....	1	742.75	1	742.75		

TRANSPORTATION ON LAKE CHAMPLAIN.

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COMPARATIVE STATISTICS—Continued.

TABLE 16.—SHIPBUILDING DURING THE 10 YEARS, 1880-1889 (STEAMERS)—NUMBER AND TONNAGE OF ALL STEAMERS BUILT IN THE CUSTOMS DISTRICTS OF LAKE CHAMPLAIN FOR THE DECADE 1880-1889, TOGETHER WITH DATA SHOWING THE NUMBER AND TONNAGE OF PROPELLER, SIDE-WHEEL, AND STERN-WHEEL STEAMERS BUILT EACH YEAR IN EACH DISTRICT.

YEARS.	CUSTOMS DISTRICTS.	PROPELLER.		SIDE-WHEEL.		YEARS.	CUSTOMS DISTRICTS.	PROPELLER.		SIDE-WHEEL.	
		Num-ber.	Ton-nage.	Num-ber.	Ton-nage.			Num-ber.	Ton-nage.	Num-ber.	Ton-nage.
1880.....	Champlain, New York	2	199.93	.....	.....	1886.....	Vermont, Vermont	1	37.70	.....	.....
1882.....	Vermont, Vermont	1	5.49	1	498.33	1888.....	Vermont, Vermont .....	.....	.....	1	742.75

RECAPITULATION.

YEARS.	ALL STEAMERS.		PROPELLER.		SIDE-WHEEL.		YEARS.	ALL STEAMERS.		PROPELLER.		SIDE-WHEEL.	
	Num-ber.	Tonnage.	Num-ber.	Tonnage.	Num-ber.	Tonnage.		Num-ber.	Tonnage.	Num-ber.	Tonnage.	Num-ber.	Tonnage.
Total	6	1,484.20	4	243.12	2	1,241.08	1882.....	2	503.82	1	5.49	1	498.33
1880.....	2	199.93	2	199.93	.....	.....	1886.....	1	37.70	1	37.70	.....	.....
							1888.....	1	742.75	.....	.....	1	742.75

CONGRESSIONAL APPROPRIATIONS.

TABLE 17.—APPROPRIATIONS BY LOCALITIES—CONGRESSIONAL APPROPRIATIONS FOR THE SURVEY, IMPROVEMENT, AND MAINTENANCE OF THE HARBORS OF LAKE CHAMPLAIN, AND OF THE RIVERS FLOWING INTO IT, FROM THE EARLIEST DATE OF APPROPRIATION TO 1890, INCLUSIVE, GIVEN BY LOCALITIES AND YEARS.

LOCALITIES.	Date of earliest ap-pro-pria-tion.	Appropriations up to and includ-ing 1879.	Appropriations from 1880 to 1889, inclusive.	Appropriations by act of Con-gress September, 1890.	Total appropria-tions up to date.
Lake Champlain		\$709,352	\$324,000	\$90,000	\$1,123,352
Burlington, Vermont	1836	426,172	135,750	20,000	581,922
Great Chazy river, New York	1890	.....	.....	10,000	10,000
Gordons landing, Vermont	1880	.....	28,750	6,000	34,750
Otter creek, Vermont	1872	28,000	8,500	5,000	41,500
Plattsburg, New York	1836	140,180	13,000	32,000	185,180
Rouses Point, New York	1884	.....	68,500	15,000	83,500
Survey of Lake Champlain, Vermont	1836	21,000	55,000	.....	76,000
Swanton harbor, Vermont	1873	61,000	9,500	.....	70,500
Ticonderoga river, New York	1881		5,000	2,000	7,000
Whitehall harbor, New York	1836	33,000			33,000

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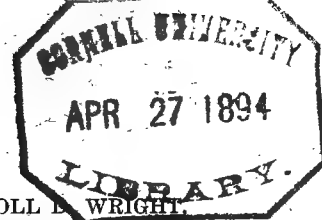
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DEPARTMENT OF THE INTERIOR,
CENSUS OFFICE.

ROBERT P. PORTER,
Superintendent.

Appointed April 20, 1889; resigned July 31, 1893.



CARROLL D. WRIGHT,
Commissioner of Labor in charge.
Appointed October 5, 1893.

REPORT
ON
TRANSPORTATION BUSINESS
IN
THE UNITED STATES
AT THE
ELEVENTH CENSUS: 1890.

THE PACIFIC COAST.

HENRY C. ADAMS,
SPECIAL AGENT.



WASHINGTON, D. C.:
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DEPARTMENT OF THE INTERIOR,
CENSUS OFFICE.

ROBERT P. PORTER,

Superintendent.

Appointed April 20, 1889; resigned July 31, 1893.

CARROLL D. WRIGHT,

Commissioner of Labor in charge.

Appointed October 5, 1893.

REPORT

ON

TRANSPORTATION BUSINESS

IN

THE UNITED STATES

AT THE

ELEVENTH CENSUS: 1890.

THE PACIFIC COAST.

HENRY C. ADAMS,

SPECIAL AGENT.



WASHINGTON, D. C.:
GOVERNMENT PRINTING OFFICE.
1893.

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LETTER OF TRANSMITTAL.

DEPARTMENT OF THE INTERIOR,
CENSUS OFFICE,
WASHINGTON, D. C., December 6, 1893.

SIR:

I have the honor to transmit herewith the report of transportation on the Pacific coast, exclusive of Alaska. The year of the report is that which ended December 31, 1889, it having been made the period for which the reports on the industry of transportation by water were secured for all sections of the country. It was found impossible to secure returns for the fiscal year ending June 30, 1890, no such period of accounting being followed in the principal centers of transportation, while in such localities as the Great Lakes and the upper waters of the Mississippi valley the period of accounting is the period of navigability bounded by the formation and breaking up of the ice.

It is learned from the report that the vessels owned on the Pacific coast, exclusive of Alaska, numbered 1,842, having a gross tonnage of 441,939 tons, and an estimated value of \$23,067,370. The traffic of that portion of the Pacific coast fleet engaged in the transportation of freight and passengers amounted to the movement of 8,818,363 tons of freight and 4,019,329 passengers, these figures being exclusive of the freight and passengers carried on railroad ferryboats. Of the 8,818,363 tons of freight, 5,634,151 tons constituted what may be called "local" business; 2,372,825 tons formed the coastwise traffic; 5,550 tons were carried on vessels plying between Atlantic and Pacific domestic ports; 707,085 tons were carried on vessels plying to foreign ports; and 98,752 tons formed the trade between Pacific coast ports and points in Alaska and on the Bering sea. The distance covered in the movement of the 8,818,363 tons of freight amounted to 12,273,515 miles, an average movement per ton of 1.39 miles.

Among the economic points presented in the report are the following: the gross earnings of the entire operated fleet of the Pacific coast vessels amounted to \$20,628,316 and the expenses to \$17,274,809, leaving the net earnings at \$3,353,507. The largest figure in the expense account was that of wages, \$6,127,451, that amount having been paid out in the employment of 33,656 men, of whom only 5,074 were reported as being native born citizens of the United States. So far as material of construction is concerned, it would seem that iron and steel are not yet largely used on the Pacific coast, only 25 of the entire fleet of sailing vessels and steamers having been built of these materials, while vessels of composite construction are almost unknown. The iron and steel vessels are, however, of unusually large tonnage.

The statistics of the report were gathered and prepared for publication by Mr. Thomas J. Vivian, in charge of statistics of transportation, under the general direction of Prof. Henry C. Adams, special agent.

Very respectfully,

CARROLL D. WRIGHT,
Commissioner of Labor in charge.

The SECRETARY OF THE INTERIOR.

INTRODUCTION.

BY HENRY C. ADAMS.

The title of the present report is "Transportation on the Pacific coast, exclusive of Alaska". The statistics which are embraced in it were secured from schedules sent to the owners and managers of vessels, supplemented by the work of Mr. Thomas J. Vivian, acting as special agent for the Pacific coast. A very small proportion of the schedules when first returned contained all the requisite information, and by far the greater portion of the facts and figures were secured from personal investigation in the various ports of Washington, Oregon, and California. The compilation of the statistics and the preparation of the text accompanying this report are also the work of Mr. Vivian, in charge of statistics of transportation.

The vessels whose equipment, value, and operations are treated of are only those registered or owned in Pacific coast ports, and the statistics show that the industry of transportation by water in this section of the country forms a steadily growing factor in the nation's carrying trade. Coasting trade has, perhaps, been somewhat retarded by the lack of full commercial facilities, but these are being enlarged from year to year. The same relation does not exist between the statistics of the present exhibit and the transportation business of western railroads that is found between the carrying business on the Great Lakes and rivers of the Mississippi valley and the railroads of the central, eastern, and southern states, because the lines of competition are not as distinctly drawn. The details of commodities moved and the length of water haul, the tabulations which indicate the increasing centralization of commerce about Puget sound, the Columbia river, and San Francisco bay, together with the figures of crews and wages, and of earnings and expenses, will be found of much commercial interest.

TRANSPORTATION ON THE PACIFIC COAST.

(EXCLUSIVE OF ALASKA.)

TRANSPORTATION ON THE PACIFIC COAST.

(EXCLUSIVE OF ALASKA.)

BY THOMAS J. VIVIAN.

The statistics of transportation which are presented in the accompanying report are for the seaports and inland waterways of the states of Washington, Oregon, and California. From the official description of the Pacific coast furnished by the United States Coast and Geodetic Survey, it may be briefly stated that from the southern boundary of California, in latitude $32^{\circ} 32'$, longitude $117^{\circ} 08'$, to Point Arguello, in latitude $34^{\circ} 34'$, longitude $120^{\circ} 38'$, the coast runs west-northwest 225 miles, off which stretch lie the Santa Barbara islands; that from Point Arguello to Cape Mendocino, in latitude $40^{\circ} 25'$, longitude $124^{\circ} 22'$, it runs northwest 525 miles, embracing the Bay of Monterey and the gulf of the Farallones with the entrance to San Francisco bay; and that from Cape Mendocino to Cape Flattery, in latitude $48^{\circ} 23'$, longitude $124^{\circ} 44'$, it runs north-northwest 480 miles, embracing Humboldt bay, the great reefs of Point St. George and Cape Orford, the entrance to the Columbia river, and the Strait of Juan de Fuca.

COMMERCIAL FACILITIES.

According to the same authority the Pacific coast shore lines are as follows:

	STATUTE MILES.
Length of coast of California, including the Santa Barbara islands, and not including the bays and rivers.....	1, 280
Oregon	382
Washington, including the islands of Washington sound, Admiralty inlet, and Puget sound	2, 028
Total shore line.....	3, 690

The advantages thus given and the facilities afforded for the prosecution of maritime commerce by such a vast coast line with the numerous harbors, inlets, and rivers that penetrate far into the interior, have not yet been fully appreciated or comprehended, although with each succeeding year the true magnitude of their possibilities is becoming understood.

COAST OF CALIFORNIA.

The coast of California lies between $32^{\circ} 32'$ and 42° north latitude. Measured from point to point its length is 850 statute miles. Its trend is from southeast to northwest, the most southerly point being also the most easterly. The most westerly point is not, however, the highest in latitude, Cape Mendocino, 100 miles south of the northern boundary, being farthest to the west. Up to this point from the Mexican boundary the trend of the coast is irregularly to the westward.

The gulf of the Farallones (in the bight of which is the entrance to San Francisco harbor), the Bay of Monterey, and a marked deviation to the east at Point Conception, are the prominent exceptions to the general northwesterly trend of the coast, and are the only instances of breaks of the continuity in large forms. The eastward recession of the coast at Point Conception partially protects the shore to the southward from northwesterly winds, and thereby serves to impart a noticeable softening to the coast climate of southern California. This protection makes landings on the open coast practicable to a much greater extent to the south of Point Conception than is possible to the north of it.

The shore line of California is generally bold and bluff to the sea, and is often mountainous and forbidding as viewed from the ocean. There are, however, a number of low plains or sand beaches interspersed between rocky points, but almost throughout its length it is bounded on the east side by ranges of mountains, which either come directly to the ocean or in other places recede a few miles from the shore line, being conspicuously visible in clear weather many miles at sea. The topography of the coast belt in general makes communication by land difficult, and in long stretches of coast the only outlet for productions or facility for trade is afforded by the sea.

The streams which discharge into the ocean are for the most part short and steep in descent. At their mouths shallow bars are found. The tide gives them whatever value they possess for purposes of navigation. This value

is not great; the depth of the few whose mouths admit vessels does not exceed 8 to 12 feet at high tide in channels that are frequently changed in position by gales of wind. The Salinas, Eel, and Klamath rivers are the largest examples.

A noticeable characteristic of the coast is the occurrence of esteros or lagoons, in which the tide rises and falls. In some instances they give admittance at high water to vessels drawing 8 to 10 feet. Wilmington harbor has been improved by the federal government so that vessels drawing 16 feet now enter. No improvement has been attempted at any of the other esteros, such as Newport, Morro, Drakes, and Bodega, but they are not of great value to commerce.

As for harbors, there are but two suitable for the largest vessels, San Francisco, admirable in every respect, and San Diego, smaller, but good. They are 500 miles apart. North of San Francisco there is no deep water harbor. Humboldt harbor to the north and Wilmington to the south are the only remaining instances of harbors which admit vessels with drafts of more than 8 to 10 feet. The limit of draft of vessels for these harbors is about 16 feet.

SAN FRANCISCO BAY AND ITS RIVERS.

What is popularly known as San Francisco bay is really a series of bays, as the different parts bear different names. San Francisco bay is 40 miles in length, extending 30 miles south of the city and 10 miles north of it. Adjoining it on the north, with an eastward trend, is San Pablo bay, about 12 miles in length, connected with Suisun bay lying to the eastward by the Strait of Karquinez, which is about 6 miles in length, the total mid-tide area of all these bays being 450 square miles.

The channels of the bay, while not free from rocks, are free from danger, and, indeed, San Francisco harbor, by reason of its unusual depth of entrance, freedom from hidden dangers, conspicuous landmarks, and its internal commodiousness and capacity, is well endowed.

The two rivers which drain the central valley of California, the Sacramento and San Joaquin, discharge together at the eastern end of Suisun bay, and, together with the bays already mentioned, afford continuous navigation to the considerable towns of Sacramento and Stockton, and to a large district of agricultural country lying above these points. The navigable portion of the Sacramento river is about 230 miles in length. The lower stretch, extending from Sacramento to the mouth, 60 miles in length, is affected by the tide for the greater part of its length, and is navigable for the largest class of river boats. The next division carries 4 feet of water in the lowest stage of the river to Colusa, 106 miles distant from Sacramento. Above Colusa the fall of the river increases rapidly. It is navigable for boats and barges drawing about 3 feet to Mackintosh landing, 68 miles farther up the Feather, which enters the Sacramento 20 miles above the city of the same name, and is navigable to the town of Marysville, 30 miles from its mouth. The San Joaquin river is navigable for large steamboats from its mouth to Stockton slough, a distance of 38 miles. During the winter and spring, navigation is practicable for light drafts to Hills Ferry, 90 miles farther up stream.

The Mokelumne river, Old river, and other tidal channels subsidiary to the San Joaquin afford steam navigation to more or less extent.

A number of tidal channels, locally known as creeks, make up from the bays, sometimes for a considerable distance, and afford navigation for light-draft boats and cheap communication with San Francisco. The largest of these are Napa, Petaluma, and Suisun creeks, the respective heads of navigation being thriving towns bearing the same names, while the whole 32 tidal channels contribute no less than 194 miles to the navigable waters of the bay.

ROADSTEADS AND LANDINGS.

The lack of convenient harbors and the difficult topography of the coast would seem to be insuperable obstacles, forbidding commerce, and consigning the coast lands to isolation. Yet a large aggregate of commerce is carried on by small vessels, which find shelter and opportunity in roadsteads, large and small, convenient or otherwise, which are distributed over almost the whole length of the coast.

The coast line, although little broken in large forms or provided with inlets admitting vessels, is irregular in a small way, being frequently varied by jutting rocky points, which afford a lee to the southward and shelter from the prevailing winds from the northwest which blow parallel to the coast line. The bights thus formed are entirely uncovered on one side, namely, to the south. Monterey roadstead is the only exception, it being open to the north and covered from the south. All others are sheltered on the north side and open in the south. In southerly weather vessels lying in these roadsteads are in danger of being driven ashore by wind or by the inset of a heavy sea.

The period of northerly or northwesterly winds covers most of the year. During winter months southerly winds occur at intervals, but not continuously. They are less frequent and less violent south of Point Conception than on the northern half of the coast, where they are liable to occur in severe storms, accompanied by heavy seas from the southwest. They are not, however, of long duration.

The coast is a lee shore in southwesterly gales, and sailing vessels finding themselves near the coast under these conditions are fortunate if they escape destruction. The prevailing northwesterly winds, however, do not expose vessels to the dangers of a lee shore, as they occur but as moderate gales. There is almost always a heavy surf, even in calm weather, which makes it dangerous to land in boats at unsheltered points.

The principal roadsteads in order of latitude south to north are San Pedro, San Luis Obispo, or Port Harford, Monterey, and Santa Cruz, situated south of San Francisco, and Drakes bay, Trinidad, and Crescent city, to the north of San Francisco.

In addition there are a great number of small roadsteads, including bays with shallow bars, river entrances, places with shelter for a very few vessels, and landings upon the open coast, where small vessels, steam or sail, receive or discharge cargo. No square rigged vessels or large steamers visit these points.

Most of these landings are contracted. They are usually provided with substantial moorings. Where trade warrants and where the position is not too exposed a wharf is built. In other cases, where the shore is high, cargo is put aboard by a chute or by means of a wire cable made fast to the mast of a vessel lying at anchor.

The distribution of these landings on different parts of the coast is quite unequal. Between the parallels 38° and 40° they are thickly grouped, there being nearly 40 in this interval. This is a region of some agricultural production, but the main trade is in the various forms of redwood lumber, railroad ties, and posts.

The mountainous character of Cape Mendocino and the absence of productions serve to reduce the number of landings between parallels 40° and 42° to six, in which, however, are included several points of importance.

Between San Pedro and San Diego there are but few landings, and they are sparsely distributed between Point Conception and Monterey.

Dense fogs prevail along the coast during the late summer and early autumn. They are a source of real danger, which is being reduced as the number of steam fog signals on shore is increased. These, with automatic whistling buoys, are now placed off the entrances of the most important ports.

COAST OF OREGON.

The coast line of Oregon is very similar to that of California, the cliffs for long stretches being almost vertical and covered with a dense growth of timber and underbrush, varied with sand dunes, a few bights, and an occasional estuary and lagoon. The harbors formed by the mouths of rivers are more numerous than any other class of landings for commercial purposes, the principal being the mouth of the Rogue river, which is quite extensive; the mouth of the Coquille, between which and San Francisco there plies a large fleet of lumber schooners; the mouth of the Umpqua, forming one of the best ports of the northwestern coast; the mouth of the Siuslaw, often called Siuslaw bay; Siletz river bay, and Nehalem bay, which is really the tidal mouth of the river of the same name.

Coos bay is quite an extensive lagoon, sheltered by Cape Arago, and contains the two important towns of Empire city and Marshfield, from which places steamship lines ply regularly to San Francisco and Portland. Yakima bay and Tillamook harbor are good roadsteads, ocean steamers of from 12 to 14 feet draft running regularly between these places and San Francisco, 450 miles to the south. Alsea bay and Chetco bay afford good landings, while Astoria is situated on an extensive estuary, into which Youngs and Klaskuine rivers empty their waters. Just above the entrance to the Rogue river, 350 miles north of San Francisco and lying under the shelter of Cape Blanco, the most westerly point of the Pacific coast states, is Port Orford, selected by United States engineers as the harbor of refuge for Oregon.

The most remarkable waterways of Oregon are the Columbia and Willamette rivers. The Columbia belongs both to Washington and Oregon. The Willamette flows northward about midway between the coast range and the Cascade mountains and empties into the Columbia river at a point about 100 miles from the ocean, receiving in its course the five important westward flowing streams: the Clockalas, Moalla, Pudding, Santiam, and McKenzie, while flowing east into it are the Tutatulin, Chehalem, Yam Hill, La Crole, Luckiamute, Marys, Long Tom, and Callaposa, all of these being streams of importance and many of them navigable. The Willamette is navigable for steamers and river craft 125 miles from its mouth.

The city of Portland is situated on the Willamette, about 12 miles from its confluence with the Columbia and 110 miles by river from the ocean. It is at the head of ocean navigation for nearly the whole area drained by the Columbia river, and is remarkable as being the first place north of San Francisco, from which it is distant 709 miles, which will admit seagoing vessels of all classes. Its trade not only includes the comparatively local traffic of northern California, western Montana, and British Columbia, but also a large and increasing foreign commerce in wheat to England and the continent, in flour to Japan, and in lumber to England, China, and South America.

THE COLUMBIA RIVER.

This great river of the northwest forms the boundary line between the states of Oregon and Washington for 320 miles. Its principal tributary, the Snake river, flows through the latter state as a navigable river for 168

STATISTICS OF TRANSPORTATION.

miles. The Columbia is navigable for steamboats of considerable draft for a distance of more than 1,000 miles from its mouth. For the first 100 miles it is five miles in width and has a depth sufficient to carry ocean vessels.

COAST OF WASHINGTON.

The coast of Washington, from the mouth of the Columbia to Cape Flattery, is even less broken than that of Oregon, the only indentations of any commercial consequence being Shoalwater bay and Grays harbor. Shoalwater bay is a long, narrow arm of the sea, lying parallel and close to the coast, and having many of the characteristics of the more southerly lagoons. The Willapa, Nasel, and North empty into the bay and are all navigable. Fifteen miles above the entrance of Shoalwater bay lies Grays harbor, the entrance to which is marked by a bar unusually safe and easy of passage. Grays harbor covers an area of 70 square miles, most of which, however, is bare or shoal at low tide. The Chehalis, Hoquiam, Johns river, and Humptulips all empty into the harbor just inside the entrance and form an excellent anchorage.

PUGET SOUND.

This landlocked body of salt water is the distinguishing feature of the state of Washington as well as of the extreme northwestern section of the United States. The distance from the channel line in the Strait of Fuca to Olympia, the head of navigation, is 117 miles. Narrow inlets from 5 to 35 miles in length, all navigable for steamers and many for deep water ships, extend from the main body in all directions, the inside shore line on the sound following these ramifications being upward of 19,000 miles. The average depth of the sound is 70 fathoms, and it is remarkable that it has for its whole extent no rocks, quicksands, or shoals. A number of rivers flow into the sound, nearly all of which take their rise in the glaciers of Mount Tacoma and other peaks of the Cascade range, the principal being the Nooksachk, Skagit, Samish, Stillaguamish, Snohomish, Snoqualmie, Nesqually, Skokomish, Dwamish, and Puyallup.

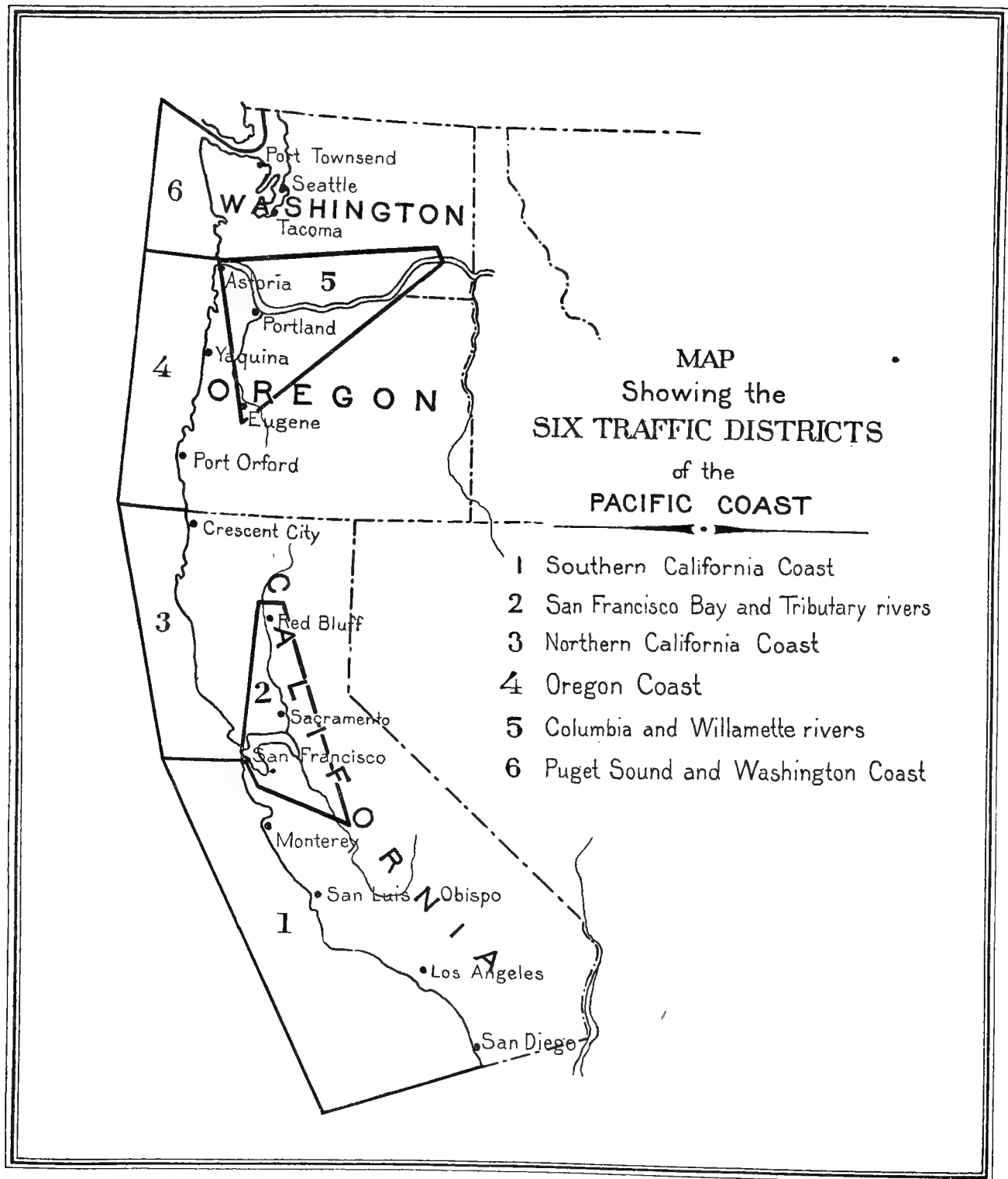
INSPECTION RETURNS.

A correct idea of the growth of active tonnage on the Pacific coast from the earliest date of official record up to the year 1880 may be gathered from the following table compiled from the records of the United States steamboat inspection service. The entries for the later years will be given in that portion of the text wherein the comparative statistics for the period bounded by the census years 1880-1890 are considered.

TABLE A.—STATEMENT SHOWING THE NUMBER AND TONNAGE OF ACTIVE STEAMERS INSPECTED ON THE PACIFIC COAST FROM 1855 TO 1880, INCLUSIVE, GIVEN FOR THE INSPECTION DISTRICTS OF SAN FRANCISCO, CALIFORNIA, PORTLAND, OREGON, AND PUGET SOUND, WASHINGTON.

YEARS.	TOTAL PACIFIC COAST.		SAN FRANCISCO.		PORTLAND.		PUGET SOUND.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
1855.....	33	19,714	33	19,714				
1856 (a).....								
1857.....	35	18,239	35	18,239				
1858.....	35	20,057	35	20,057				
1859.....	31	18,170	31	18,170				
1860.....	43	23,493	43	23,493				
1861 (a).....								
1862.....	75	30,477	50	27,654	25	2,823		
1863.....	68	25,868	44	22,509	24	3,359		
1864.....	70	32,598	43	28,853	27	3,745		
1865.....	88	38,124	63	33,686	25	4,438		
1866.....	99	46,812	73	42,738	24	4,074		
1867.....	119	57,198	85	49,162	34	8,036		
1868.....	107	69,645	87	64,254	20	5,391		
1869.....	166	75,934	113	65,660	53	10,274		
1870.....	154	63,156	101	53,625	53	9,531		
1871.....	180	83,279	110	70,539	50	10,388	20	2,352
1872.....	173	83,925	101	71,996	50	9,224	22	2,705
1873.....	204	83,271	124	67,804	55	12,358	25	3,109
1874.....	217	95,643	136	79,830	57	12,696	24	3,117
1875.....	222	98,368	136	79,392	64	15,690	22	3,286
1876.....	249	94,957	152	74,433	61	16,125	36	4,399
1877.....	271	102,912	163	78,348	71	19,548	37	5,016
1878.....	288	112,327	165	83,664	81	24,041	42	4,622
1879.....	292	109,790	161	78,401	92	26,789	39	4,600
1880.....	288	107,729	161	78,599	91	24,650	36	4,480

a In 1856 and 1861 no inspections were made.



LOCALITIES OF REGISTRATION, EQUIPMENT, AND TRAFFIC.

In order to facilitate the presentation of statistics two systems of assignment have been devised and followed. The first system is that of segregating the various reports according to the customs districts, of which there are nine in the states of California, Oregon, and Washington. These, with their distinctive names, ports of entry, and ports of delivery, together with their boundary lines, are as follows:

NAMES, PORTS, AND BOUNDARY LINES OF THE CUSTOMS DISTRICTS OF CALIFORNIA, OREGON, AND WASHINGTON.

CALIFORNIA.

NUMBERS.	Name of district.	Port of entry.	Port of delivery.	Boundary line.
1.....	San Diego.....	San Diego.....		From Mexico to Point San Mateo.
2.....	Wilmington.....	Wilmington.....	Santa Barbara, San Buenaventura, and Hueneme.	From Point San Mateo to Point Sal, California.
3.....	San Francisco.....	San Francisco.....	Vallejo and San Luis Obispo.....	From Point Sal to south line of Humboldt county, California.
4.....	Humboldt.....	Eureka.....	Crescent City.....	From south line of Humboldt county, California, to Oregon.

OREGON.

5.....	Southern Oregon.....	Coos bay.....	Ellensburg, Port Orford, and Gardiner.	From south line of Oregon to the south line of Lane county, Oregon.
6.....	Yaquina.....	Yaquina.....	Newport.....	From south line of Lane county, Oregon, to Cape Lookout, Oregon.
7.....	Oregon.....	Astoria.....		From Cape Lookout to Tillamook head, Oregon.
8.....	Willamette.....	Portland.....		From Portland, Oregon, to mouth of Willamette river.

WASHINGTON.

9.....	Puget Sound.....	Port Townsend.....		From Tillamook head to north boundary of Washington.
--------	------------------	--------------------	--	--

To these districts all the statistics of number, valuation, tonnage, construction, rig, occupation, earnings, expenses, and operations have been assigned. The statistics assigned to the customs districts stand as the reports of the vessels registered in the ports embraced in those districts, but do not stand as the reports of the trade of ports, nor do they indicate well defined movements of commerce. The plan was therefore adopted of selecting "traffic districts" between or within which a more or less distinctive trade is carried on; these districts being entitled as follows:

TRAFFIC DISTRICTS.

- | | | |
|---|-------------------------------------|--------------------------------|
| 1 Southern California coast. | 4 Oregon coast. | 7 Foreign ports. |
| 2 San Francisco bay and tributary rivers. | 5 Columbia and Willamette rivers. | 8 Atlantic ports. |
| 3 Northern California coast. | 6 Puget sound and Washington coast. | 9 Alaska coast and Bering sea. |

Of these districts, it will be observed, six are located on the coast of the states of California, Oregon, and Washington, their limitations being set down on the accompanying map, while the ports and trading points of all the districts at which Pacific coast vessels made a report of having called are given in the following lists:

District No. 1, entitled "Southern California coast", includes the following ports and landings:

Amesport, San Mateo county.	Moss landing, Monterey county.	Point Sur, Monterey county.
Anaheim, Orange county.	Newport, Orange county.	Port Harford, San Luis Obispo county.
Andersons landing, San Diego county.	Pacific Grove, Monterey county.	Redondo, Los Angeles county.
Aptos, Santa Cruz county.	Pajaro, Monterey county.	Salinas landing, Monterey county.
Avalon, Los Angeles county.	Palos Verdes, Los Angeles county.	San Buenaventura, Ventura county.
Ballona harbor, Los Angeles county.	Pescadero, San Mateo county.	San Clemente island, San Diego county.
Cape San Martin, Monterey county.	Piedras Blancas, San Luis Obispo county.	San Diego, San Diego county.
Carpenteria, Santa Barbara county.	Pigeon point, San Mateo county.	San Nicolas island, San Diego county.
Catalina island, San Diego county.	Pillar point, San Mateo county.	San Pedro, Los Angeles county.
Cayucos, San Luis Obispo county.	Point Arguello, Santa Barbara county.	San Simeon, San Luis Obispo county.
Coronado, San Diego county.	Point Buchon, San Luis Obispo county.	Santa Barbara islands, Santa Barbara county.
Davenport's landing, Santa Cruz county.	Point Conception, Santa Barbara county.	Santa Barbara, Santa Barbara county.
Farallones, San Francisco county.	Point Cypress, Monterey county.	Santa Cruz island, Santa Barbara county.
Gaviota, Santa Barbara county.	Point Gordo, Monterey county.	Santa Cruz, Santa Cruz county.
Goleta, Santa Barbara county.	Point Lobos, San Francisco county.	Santa Monica, Los Angeles county.
Gordons, Monterey county.	Point Loma, San Diego county.	Santa Rosa island, Santa Barbara county.
Half Moon bay, San Mateo county.	Point Monterey, San Mateo county.	Soquel, Santa Cruz county.
Hueneme, Ventura county.	Point Nuevo Ano, San Mateo county.	Watsonville landing, Monterey county.
Lompoc landing, Santa Barbara county.	Point Pinos, Monterey county.	Williams landing, Santa Cruz county.
Los Berros, San Luis Obispo county.	Point Purissima, Santa Barbara county.	Wilmington, Los Angeles county.
Monterey, Monterey county.	Point Sal, Santa Barbara county.	
Morro, San Luis Obispo county.	Point San Pedro, Los Angeles county.	

District No. 2, entitled "San Francisco bay and tributary rivers", includes the following ports and landings:

Alameda, San Francisco bay.
 Alvarado, San Francisco bay.
 Alviso, San Francisco bay.
 Andersons landing, San Francisco bay.
 Angel island, San Francisco bay.
 Antioch, San Joaquin river.
 Barrons landing, Suisun bay.
 Benicia, San Francisco bay.
 Bensons landing, San Francisco bay.
 Berkeley, San Francisco bay.
 Birds landing, Sacramento river.
 Black Diamond, Sacramento river.
 Black point, San Francisco bay.
 Blind bay, San Francisco bay.
 Bob Mains landing, San Francisco bay.
 Bolton island, San Joaquin river.
 Boulder island, San Joaquin river.
 Bracks landing, Sacramento river.
 Buhlers landing, Suisun bay.
 Burdsells landing, Sacramento river.
 Butte city, Sacramento river.
 California city, San Francisco bay.
 Cant creek, San Francisco bay.
 Clarksburg, Sacramento river.
 Collinsville, Sacramento river.
 Colusa, Sacramento river.
 Courtland, Sacramento river.
 Crows landing, Sacramento river.
 Decota, Sacramento river.
 Dunbarton, Sacramento river.
 Duttons, San Francisco bay.
 Fairfield, Sacramento river.
 Fair Oaks, Sacramento river.
 Firebaugh, San Joaquin river.
 Franklin, Sacramento river.
 Freeport, Sacramento river.
 Galinas creek, San Francisco bay.
 Goat island, San Francisco bay.
 Grafton, Sacramento river.
 Grand island, Sacramento river.
 Gravel beds, San Francisco bay.
 Grayson, Sacramento river.
 Haystack landing, Sacramento river.
 Hunters point, San Francisco bay.
 Iron Horse slough, Sacramento river.

Isleton, Sacramento river.
 Jarvis landing, San Francisco bay.
 Jersey landing, Sacramento river.
 Jewels landing, San Francisco bay.
 Knights landing, Sacramento river.
 Lakeville, Sacramento river.
 Linden, Sacramento river.
 Long bridge, San Francisco bay.
 Lux ranch, San Francisco bay.
 McIntosh landing, Sacramento river.
 Maine prairies, Sacramento river.
 Mare island, San Francisco bay.
 Martinez, San Francisco bay.
 Marysville, Sacramento river.
 Maurys landing, San Francisco bay.
 Mayhews landing, San Francisco bay.
 Meiggs wharf, San Francisco bay.
 Melrose, San Francisco bay.
 Milpitas, San Francisco bay.
 Mokelumne river, San Joaquin river.
 Mott landing, San Francisco bay.
 Mountain View, San Francisco bay.
 Mount Eden, San Francisco bay.
 Mulfords landing, Napa creek.
 Napa, Napa creek.
 New Hope, Sacramento river.
 New town, Sacramento river.
 Novato, San Francisco bay.
 Oakland, San Francisco bay.
 Oregon dock, San Francisco bay.
 Oyster beds, San Francisco bay.
 Pacheco, San Francisco bay.
 Pattersons landing, Sacramento river.
 Petaluma creek, San Francisco bay.
 Petaluma, Petaluma creek.
 Peter point, San Francisco bay.
 Pinole, San Francisco bay.
 Pipers slough, San Francisco bay.
 Pittsburg landing, San Joaquin river.
 Port Costa, San Francisco bay.
 Potato slough, San Joaquin river.
 Powning, San Francisco bay.
 Presidio, San Francisco bay.
 Ravenswood, San Joaquin river.
 Redwood city, San Francisco bay.

Richland, Sacramento river.
 Rio Vista, Sacramento river.
 Roberts island, San Joaquin river.
 Rolling mills, San Francisco bay.
 Rose landing, San Joaquin river.
 Rose slough, San Joaquin river.
 Sacramento, Sacramento river.
 Salt slough, San Joaquin river.
 Salt works, San Francisco bay.
 San Bruno, San Francisco bay.
 San Francisco, San Francisco bay.
 San Francisquito, San Joaquin river.
 San Joaquin, San Joaquin river.
 San Mateo, San Francisco bay.
 San Pablo, San Francisco bay.
 San Quentin, San Francisco bay.
 San Rafael, San Francisco bay.
 Sausalito, San Francisco bay.
 Seal bluff, San Francisco bay.
 Selbys, San Francisco bay.
 Sierra point, San Francisco bay.
 Snodgrass slough, San Joaquin river.
 Sobrante, San Francisco bay.
 Sonoma landing, San Francisco bay.
 Stockton, San Joaquin river.
 Stones landing, San Francisco bay.
 Stratton island, San Joaquin river.
 Suisun, Suisun bay.
 Sutterville, San Joaquin river.
 Tabors landing, San Francisco bay.
 Thomas landing, San Francisco bay.
 Tiburon, San Francisco bay.
 Tolands landing, Sacramento river.
 Turks landing, Sacramento river.
 Union city creek, San Joaquin river.
 Union house, Sacramento river.
 Union iron works, San Francisco bay.
 Union island, San Francisco bay.
 Vallejo, San Francisco bay.
 Walnut Grove, Sacramento river.
 Warm springs, San Francisco bay.
 West Berkeley, San Francisco bay.
 Whites landing, San Joaquin river.
 Woodbridge, San Joaquin river.
 Yuba city, Sacramento river.

District No. 3, entitled "Northern California coast", includes the following ports and landings:

Albion, Mendocino county.
 Arcata, Humboldt county.
 Bodega, Sonoma county.
 Bolinas, Marin county.
 Bowers landing, Mendocino county.
 Biblers point, Sonoma county.
 Bridgeport, Humboldt county.
 Buckport, Humboldt county.
 Casper, Mendocino county.
 Cleone, Mendocino county.
 Collins landing, Mendocino county.
 Crescent, Del Norte county.
 Cuffey Cove, Mendocino county.
 Duxbury point, Sonoma county.
 El river, Humboldt county.
 Eureka, Humboldt county.
 Fields landing, Humboldt county.
 Fish rock, Mendocino county.
 Fisks mill, Sonoma county.

Fort Bragg, Mendocino county.
 Fort Ross, Sonoma county.
 Greenwood creek, Mendocino county.
 Gualala, Mendocino county.
 Hookton, Humboldt county.
 Humboldt, Humboldt county.
 Inglenook, Mendocino county.
 Klamath river, Humboldt county.
 Little river, Mendocino county.
 Mad river, Humboldt county.
 Mendocino city, Mendocino county.
 Myrtle creek, Humboldt county.
 Navarro, Mendocino county.
 North Port, Mendocino county.
 Noyo, Mendocino county.
 Point Arena, Mendocino county.
 Point Gorda, Humboldt county.
 Point Reyes, Marin county.
 Point Tomales, Marin county.

Port Kenyon, Humboldt county.
 Rockport, Mendocino county.
 Rough and Ready, Mendocino county.
 Russian landing, Sonoma county.
 Salt point, Sonoma county.
 Shelter Cove, Mendocino county.
 Signal point, Mendocino county.
 Smiths river, Del Norte county.
 South bay, Humboldt county.
 Stewarts point, Sonoma county.
 Stillwater Cove, Sonoma county.
 Table bluff, Humboldt county.
 Timber Cove, Sonoma county.
 Tomales, Marin county.
 Trinidad, Humboldt county.
 Ussal creek, Mendocino county.
 Westport, Mendocino county.
 Whitesboro, Mendocino county.

District No. 4, entitled "Oregon coast," includes the following ports and landings:

Alsea bay, Benton county.	Empire city, Coos county.	Port Orford, Curry county.
Bandon, Coos county.	Florence, Lane county.	Randolph, Coos county.
Bay city, Tillamook county.	Gardiner, Douglas county.	Rock creek, Tillamook county.
Cape Blanco, Curry county.	Garibaldi, Tillamook county.	Rogue river, Curry county.
Cape Foulweather, Tillamook county.	Hobsonville, Tillamook county.	Scottsburg, Douglas county.
Cape Gregory, Coos county.	Marshfield, Coos county.	Seaton, Lane county.
Cape Lookout, Tillamook county.	Mishawaka, Clatsop county.	Shoalwater bay, Coos county.
Cape Mears, Tillamook county.	Myrtle, Coos county.	Siletz bay, Tillamook county.
Cape Orford, Curry county.	Nehalem bay, Clatsop county.	Siuslaw, Lane county.
Cape Perpetua, Benton county.	Nestocton, Tillamook county.	Smiths river, Douglas county.
Chetco, Curry county.	Netarts, Tillamook county.	Sulphur springs, Douglas county.
Collins, Benton county.	Newport, Benton county.	Tillamook, Tillamook county.
Coos bay, Coos county.	Norfolk, Douglas county.	Toledo, Benton county.
Coos city, Coos county.	Oretown, Tillamook county.	Umpqua river, Douglas county.
Coquille river, Coos county.	Oyster bay, Benton county.	Utter city, Coos county.
Elk city, Benton county.	Oysterville, Benton county.	Yakima, Benton county.
Ellensburg, Curry county.	Parkersburg, Coos county.	Yaquina, Benton county.

District No. 5, entitled "The Columbia and Willamette rivers", includes the following ports and landings:

Albany, Willamette river.	Fern Hill, Columbia river.	Oswego, Willamette river.
Albina, Willamette river.	Fort Canby, Columbia river.	Pekin, Columbia river.
Arlington, Columbia river.	Fort Stevens, Columbia river.	Peoria, Willamette river.
Astoria, Columbia river.	Freeport, Columbia river.	Pillar rock, Columbia river.
Beaver, Columbia river.	Gnat creek, Columbia river.	Point Adams, Columbia river.
Blalock, Columbia river.	Grays river, Columbia river.	Portland, Willamette river.
Blind slough, Columbia river.	Harringtons point, Columbia river.	Quinn, Columbia river.
Booneville, Willamette river.	Harrisburg, Willamette river.	Ranier, Columbia river.
Butteville, Willamette river.	Hess slough, Columbia river.	Rays landing, Willamette river.
Canby, Willamette river.	Hoods river, Columbia river.	Rowena, Columbia river.
Cape Disappointment, Columbia river.	Hunters point, Columbia river.	St. Helen, Columbia river.
Cape Horn, Columbia river.	Ilwaco, Columbia river.	St. Johns, Columbia river.
Carroll, Columbia river.	Independence, Willamette river.	Salem, Willamette river.
Cascades, Columbia river.	John Days river, Columbia river.	Sand island, Willamette river.
Castle Rock, Columbia river.	Juniper, Columbia river.	Scappose, Columbia river.
Cathlamet, Columbia river.	Kalama, Columbia river.	Sellwood, Willamette river.
Chinook, Columbia river.	Kelso, Columbia river.	Skamokawa, Columbia river.
Clackamas, Willamette river.	Klakamas, Willamette river.	Skipanon, Columbia River.
Clark river, Upper Columbia river.	Klickitat, Columbia river.	Springfield, Willamette river.
Clatskamie river, Columbia river.	Knappa, Columbia river.	Stokes, Columbia river.
Clatsop, Columbia river.	Knappton, Columbia river.	The Dalles, Columbia river.
Clifton, Columbia river.	La Center, Columbia river.	Toledo, Columbia river.
Collis, Columbia river.	Lake river, Columbia river.	Tongue point, Columbia river.
Columbia, Columbia river.	Lewis and Clarke river, Columbia river.	Tualatin, Willamette river.
Cool creek, Columbia River.	Lincoln, Willamette river.	Umatilla, Columbia river.
Corvallis, Willamette river.	Marshland, Columbia river.	Upper Columbia, Columbia river.
Coweewan, Columbia river.	Martins slough, Columbia river.	Vancouver, Columbia river.
Cowlitz, Columbia river.	Millers, Willamette river.	Venton, Columbia river.
Coyote, Columbia river.	Milton, Columbia river.	Wallawalla, Columbia river.
Deep creek, Upper Columbia river.	Milwaukee, Willamette river.	Wallula, Columbia river.
Deer island, Columbia river.	Mohawk, Willamette river.	Washongal, Columbia river.
Dodsons, Columbia river.	Monticello, Columbia river.	Waterford, Columbia river.
Eagle cliff, Columbia river.	Mosier, Columbia river.	Westport, Columbia river.
East Portland, Willamette river.	Mount Coffin, Columbia river.	Weyeth, Columbia river.
Enterprise, Columbia river.	Oak Point, Columbia river.	Wheatland, Willamette river.
Eugene city, Willamette river.	Olney, Columbia river.	Youngs river, Columbia river.
Fairfield, Willamette river.	Oregon city, Willamette river.	

District No. 6, entitled "Puget sound and Washington coast", includes the following ports and landings:

Aberdeen, coast.	Gull harbor, Puget sound.	Port Madison, Puget sound.
Anacortes, Puget sound.	Hadlock, Puget sound.	Port Orchard, Puget sound.
Arcadia, Puget sound.	Hats slough, Puget sound.	Port Townsend, Puget sound.
Avondale, Puget sound.	Henderson bay, Puget sound.	Poulsbo, Puget sound.
Ballard, Puget sound.	Hoko, Puget sound.	Purdy, Puget sound.
Bay city, coast.	Hoquiam, coast.	Puyallup, Puget sound.
Bellingham bay, Puget sound.	Humptulips, Puget sound.	Pysht, Puget sound.
Birch bay, Puget sound.	Irondale, Puget sound.	Quartermaster's harbor, Puget sound.
Blaine, Puget sound.	Johns river, coast.	Quilcene, Puget sound.
Bruceport, coast.	Kamilche, Puget sound.	Quillaynte, coast.
Cape Flattery, coast.	Kanaka bay, coast.	Quinault, coast.
Cape Johnson, coast.	Kirkland, Puget sound.	Renton, Puget sound.
Cascade bay, coast.	Lacconner, Puget sound.	Riparia, Snake river.
Caseys inlet, Puget sound.	Lake bay, Puget sound.	Riverside, coast.
Cedarville, coast.	Lakeview, Puget sound.	Roche harbor, Puget sound.
Centerville, Puget sound.	Lopes island, Puget sound.	St. Helens, coast.
Chehalis bay, coast.	Lowell, Puget sound.	Salmon bay, Puget sound.
Chicago, Puget sound.	Lumi, Puget sound.	Samish, Puget sound.
Chico, Puget sound.	Lyman, Puget sound.	San Juan, Puget sound.
Chimacum, Puget sound.	Lynden, Puget sound.	Seabeck, Puget sound.
Cluckamut, Puget sound.	Markham, coast.	Seattle, Puget sound.
Coburg, Puget sound.	Marysville, Puget sound.	Seguin, Puget sound.
Cosmopolis, coast.	McKay, Puget sound.	Sehome, Puget sound.
Coupeville, Puget sound.	Melbourne, coast.	Semiahmoo, Puget sound.
Coveland, Puget sound.	Minter, Puget sound.	Shelton, Puget sound.
Crescent bay, Puget sound.	Montesano, coast.	Sidney, Puget sound.
Cypress, Puget sound.	Mount Vernon, Puget sound.	Skagit, Puget sound.
Damon, coast.	Mukilteo, Puget sound.	Skokomish, Puget sound.
Deception bay, Puget sound.	Nasel, coast.	Snohomish, Puget sound.
Des Moines, Puget sound.	Neah bay, Puget sound.	South Bend, coast.
Dewatto, Puget sound.	Nesqually, Puget sound.	Springbrook, Puget sound.
Doe bay, Puget sound.	New Dungeness, Puget sound.	Stanwood, Puget sound.
Dogfish bay, Puget sound.	New London, Puget sound.	Steilacoom, Puget sound.
Dunamish, Puget sound.	Nibbeville, Puget sound.	Stillaguamish, Puget sound.
Dwamish, Puget sound.	Nooksachk, Puget sound.	Sunshine, coast.
East sound, Puget sound.	North cove, coast.	Tacoma, Puget sound.
Ebeys landing, Puget sound.	Oak harbor, Puget sound.	Tolt, Puget sound.
Edison, Puget sound.	Oakland, Puget sound.	Tulalip, Puget sound.
Edmunds, Puget sound.	Olympia, Puget sound.	Tumwater, Puget sound.
Elma, coast.	Orcas island, Puget sound.	Union city, Puget sound.
Fairhaven, Puget sound.	Oysterville, coast.	Utsaladdy, Puget sound.
Falls city, Puget sound.	Petersons point, coast.	Vashon, Puget sound.
Fidalgo, Puget sound.	Port Angeles, Puget sound.	Vaughn, Puget sound.
Florence, Puget sound.	Port Blakeley, Puget sound.	Waldron, Puget sound.
Freeport, Puget sound.	Port Discovery, Puget sound.	Whitcom, Puget sound.
Friday harbor, Puget sound.	Port Gamble, Puget sound.	White river, Puget sound.
Gig harbor, Puget sound.	Port Hadlock, Puget sound.	Willapa, coast.
Grays harbor, coast.	Port Ludlow, Puget sound.	Willopah, coast.
Guemes, Puget sound.		

Traffic district No. 7, entitled "Foreign", includes the ports of call and trading points embraced in the following branches: Japanese and Chinese trade; East India trade; Mexican trade: Central and South American trade; South Sea trade; Canadian trade, and European trade:

JAPANESE AND CHINESE TRADE.

Amoy, China.	Nagasaki, Japan.	Suatow, China.
Foochow, China.	Nicholasofski, Siberia.	Vladivostock, Siberia.
Hakodate, Japan.	Petropaulofski, Siberia.	Yokohama, Japan.
Hongkong, China.	Shanghai, China.	

EAST INDIA TRADE.

Bangkok, Siam.	Manilla, Philippine islands.	Saigon, Cochin China.
Batavia, Java.	Padang, Sumatra.	Samarari, Philippine islands.
Bombay, Hindostan.	Pakalongon, Borneo.	Singapore, Malaya.
Calcutta, Hindostan.	Penange, Malaya.	Sourabaya, Java.
Madagascar island.		

MEXICAN TRADE.

Acapulco, Guerrero.	La Paz, Lower California.	San Benito, Sinaloa.
Cape San Lucas, Lower California.	Magdalena bay, Lower California.	San Blas, Jalisco.
Ceros island, Lower California.	Manzanillo, Colima.	San Quentin, Lower California.
Coronado islands, Lower California.	Mazatlan, Sinaloa.	Santa Margerita island, Lower California.
Ensenada, Lower California.	Port Angel, Lower California.	Santa Rosalie island, Lower California.
Guaymas, Sonora.	Raza island, Lower California.	Tonala, Chiapas.

CENTRAL AND SOUTH AMERICAN TRADE.

Acajutla, Salvador.	Coquimbo, Chile.	Payta, Peru.
Amapalla, Honduras.	Corinto, Nicaragua.	Peten, Peru.
Arico, Chile.	Guayaquil, Ecuador.	Pimental, Peru.
Autafogasta, Chile.	Huasco, Chile.	Pisagua, Chile.
Balenita, Ecuador.	Iquique, Chile.	Pisco, Peru.
Buena Ventura, United States of Colombia.	La Libertad, Salvador.	Punta Arenas, Costa Rica.
Caldera, Chile.	La Union, Salvador.	Realjo, Guatemala.
Callao, Peru.	Manta, Ecuador.	Salavari, Peru.
Cape Corientes, Chile.	Molendo, Peru.	San José, Guatemala.
Carra bay, Peru.	Nicaragua, Guatemala.	San Juan Del Sur, Nicaragua.
Champerico, Guatemala.	Panama, United States of Colombia.	Tunaco, United States of Colombia.
Cobija, Chile.	Pascamayo, Peru.	Valparaiso, Chile.
Colba, Guatemala.		

SOUTH SEA TRADE.

Apia, Samoan islands.	Homapo, Hawaiian islands.	Newcastle, New South Wales.
Caroline islands.	Honolulu, Hawaiian islands.	Papeete, Society islands.
Fanning islands.	Howland islands.	Solomon islands.
Flint islands.	Kahului, Hawaiian islands.	Sprecklesville, Hawaiian islands.
Friendly islands.	Mahukona, Hawaiian islands.	Sydney, New South Wales.
Gilbert islands.	Marshall islands.	Tahiti, Society islands.
Hilo, Hawaiian islands.	Melbourne, New South Wales.	Tutnila, Samoan islands.

CANADIAN TRADE.

Barkley sound, British Columbia.	Dunsmuir, Vancouver island, British Columbia.	Port Moody, British Columbia.
Bellingham bay, British Columbia.	Moodyville, British Columbia.	Texada island, Straits of Georgia, British Columbia.
Chemainus, Vancouver island, British Columbia.	Nanimo, Vancouver island, British Columbia.	Vancouver, British Columbia.
Comox, Vancouver island, British Columbia.	New Westminster, British Columbia.	Victoria, Vancouver island, British Columbia.
Departure bay, Vancouver Island, British Columbia.	Nootka sound, British Columbia.	

EUROPEAN TRADE.

The large European ports, the principal trading having been with Liverpool, Plymouth, London, Hull, Bordeaux, and Hamburg.

District No. 8, entitled "Atlantic ports", includes all seaports on the United States Atlantic coast.

District No. 9, entitled "Alaska coast and Bering sea", includes the following ports and trading points:

Bartlett bay.	Douglas island.	Howkan.	Labaska.	Point Hoonah.	Sutteshan.
Bristol bay.	Etches bay.	Juneau.	Labouchere bay.	Port Clarence.	Unalaska.
Burroughs bay.	Fin point.	Karluk.	Mitlakotla.	Prince Williams sound.	Uyak.
Chignik.	Fish bay.	Killisnoo.	Morgovia.	Pyramid harbor.	Wrangell island.
Chilkat.	Fort Tongass.	Klawak.	Nichols bay.	Sitka.	Yess bay.
Cook inlet.	Freshwater bay.	Kodiak.	Nushagak.		

PLAN OF THE TABLES.

For the presentation of the statistical results of the investigation by the Eleventh Census into the industry of transportation by water on the Pacific coast, 40 tables have been prepared, their respective numbers and titles being as follows:

Equipment, occupation, and construction:

- Table 1. Equipment of all craft.
- Table 2. Occupation and valuation by classes.
- Table 3. Ownership by classes.
- Table 4. Ownership by localities.
- Table 5. Construction by classes.
- Table 6. Construction by localities.

Traffic operations:

- Table 7. Traffic in general.
- Table 8. Freight traffic by commodities.
- Table 9. Interdistrict movement (freight).
- Table 10. Interdistrict movement (mileage).

Earnings and expenses:

- Table 11. Financial account in general.
- Table 12. Itemized expense account.
- Table 13. Employés and wages in detail.
- Table 14. Employés and wages by coast totals.
- Table 15. Fuel account.

General operations by classes:

- Table 16. Passenger and freight vessels.
- Table 17. Ferryboats.
- Table 18. Fishing vessels.
- Table 19. Harbor tugs.
- Table 20. Pilot boats.
- Table 21. Yachts and pleasure boats.
- Table 22. No traffic report.
- Table 23. Summary.

Comparative statistics:

- Table 24. Steamers and unrigged craft in 1880 and 1889.
- Table 25. Steamers by classes in 1880 and 1889.
- Table 26. Gross earnings of steamers in 1880 and 1889.
- Table 27. Steamers' crews and wages in 1880 and 1889.
- Table 28. Steamer traffic in 1880 and 1889.
- Table 29. Fleets for the 10 years, 1880-1889.
- Table 30. Aggregates and averages for the 10 years, 1880-1889 (all vessels).
- Table 31. Aggregates and averages for the 10 years, 1880-1889 (steamers).
- Table 32. Aggregates and averages for the 10 years, 1880-1889 (sailing vessels).
- Table 33. Aggregates and averages for the 10 years, 1880-1889 (unrigged craft).
- Table 34. Tonnage fluctuations for the 10 years, 1880-1889 (all craft).
- Table 35. Tonnage fluctuations for the 10 years, 1880-1889 (steamers).
- Table 36. Tonnage fluctuations for the 10 years, 1880-1889 (sailing vessels).
- Table 37. Tonnage fluctuations for the 10 years, 1880-1889 (unrigged craft).
- Table 38. Shipbuilding for the 10 years, 1880-1889 (general).
- Table 39. Shipbuilding for the 10 years, 1880-1889 (steamers).

Congressional appropriations:

- Table 40. Appropriations for the Pacific coast by localities.

EQUIPMENT AND OCCUPATION.

Table 1, "Equipment of all craft", shows the number, tonnage, and value of all steamers, sailing vessels, and unrigged craft of over five tons burden, registered or owned in the customs districts of the states of California, Oregon, and Washington, in the year ended December 31, 1889, no matter what their occupation, or whether they were in occupation or not.

Table 2, entitled "Occupation and valuation by classes", analyzes the entries of Table 1 by separating the Pacific coast fleet into classes of occupation or pursuit. The steamers are divided into five classes, namely, those engaged in the transportation of both passengers and freight, ferryboats, fishing vessels, harbor tugs, and yachts; the sailing vessels are divided into four classes: freighters, fishing vessels, pilot boats, and yachts. A separate entry is also made of those steamers and sailing vessels which made no report of traffic operations. Separate entry is also made of the barges, lighters, and scows, grouped as unrigged. For each of these classifications the number, gross tonnage, valuation, and value per gross ton are given of vessels so classified allotted to each customs district, with totals for the states and coast.

OWNERSHIP BY CLASSES.

Table 3 shows the number, tonnage, and value of all classes of vessels allotted, respectively, to individual, joint stock, and corporate ownership, the entries being grouped for each class of craft and credited separately to each customs district, with totals for the states and coast, as in the other tables of equipment.

Table 4, "Ownership by localities", treats of the same subject as Table 3, except that instead of grouping the data by classes of occupation it groups them by localities, gathering under the head of each district all the vessels of all classes forming its fleet.

CONSTRUCTION.

Table 5, "Construction by classes", shows the number, tonnage, and value of all classes of vessels, respectively, constructed of wood, composite, and iron or steel, the entries being grouped for each class of craft and credited separately to each district, with totals for the states and coast.

Table 6, "Construction by localities", bears the same relation to Table 5 that Table 4 does to Table 3; that is, instead of grouping the data of construction by classes of occupation, it groups them by localities, gathering under the head of each district all the vessels of all classes forming its fleet.

TRAFFIC.

The statistics of traffic are presented in four tables numbered from 7 to 10, inclusive. The first, Table 7, "Traffic in general", contains the number of vessels, their tonnage, trips made, number of miles covered, freight moved, and passengers carried by all freight and passenger carrying craft of the Pacific coast.

Table 8, "Freight traffic by commodities", divides the gross statement of freight carried into the principal items of classified report.

The preceding tables have all been assigned to the customs districts described in the paragraph entitled "Localities of registration, equipment, and traffic", but in the two following tables (9 and 10) the statistics of traffic operations are assigned to the traffic districts described in the same paragraph. Table 9, for instance, entitled "Interdistrict movement (freight)", shows how many tons of each commodity were moved in or between any of the six traffic districts into which the coast has been marked off, and between any of these districts and foreign ports, Atlantic ports, and the Alaska coast and the Bering sea, while Table 10 shows how many miles were covered by the vessels engaged in the transportation of this freight, the entries in each table being made in such way as to show how the traffic vessels of each port were occupied, where they went, how many tons they carried, and how many miles they traveled during the year of report.

EARNINGS AND EXPENSES.

Four tables, numbered 11 to 14, are devoted to this part of the subject. Table 11, "Financial account in general", is almost a balance sheet of the industry of water transportation on the Pacific coast, showing as it does the gross earnings, expenses, and remaining net earnings of the coast fleet reporting their income and expenditure, the entries being made for the ports of registration, with totals for states and coast.

In Table 12, entitled "Itemized expense account", the expenses of reporting vessels, following the same division of customs districts and states, are divided into the various items of port charges, wages, provisions, current repairs, fuel (for steamers), other running expenses, commissions, insurance, taxes, office expenses, and other shore expenses, these being the eleven divisions of the expenditures.

EMPLOYÉS AND WAGES.

A still further subdivision of expenses is made in Table 13, "Employés and wages in detail". Here the monthly wages paid in each district to all grades of employés on vessels engaged in the transportation of freight and passengers is given, together with the number of each class of employés making up the ordinary crews required as the complement of all the reporting craft engaged in traffic operations.

Table 14, "Employés and wages by coast totals", is really a résumé of Table 13, taking up as it does the total number of employés of each grade and the aggregate and average monthly wages paid to each of these grades on the coast for all operating vessels engaged in passenger and freight traffic on the Pacific coast, the only segregations being those of steamers and sailing vessels.

FUEL ACCOUNT.

Table 15, entitled "Fuel account", applies only to steamers, and gives the amount of coal and wood burned by the steamers operated in the customs districts, together with the cost of the same.

GENERAL OPERATIONS BY CLASSES.

In the eight tables numbered from 16 to 23, inclusive, embraced under the above head, a separate account is given of the general operations of the six classes of vessels into which they were divided in Table 2; that is, freight and passenger vessels, ferryboats, fishing vessels, harbor tugs, pilot boats, yachts, and pleasure boats, with an additional table for those craft not making any traffic report and one in résumé. The items reported on, wherever practicable, are number, tonnage, value, trips made, miles traveled, freight moved, passengers carried, gross earnings, expenses; net earnings, common seamen employed, average wages per month paid to common seamen, number making up ordinary crews, total number of men employed, and total wages paid during the year.

COMPARATIVE STATISTICS.

All the tables which have been previously considered present only what may be called the positive statistics for the year ended December 31, 1889, whereas the sixteen tables numbered inclusively 24 to 39 give the comparative statistics either for the two years 1880 and 1889 or for the ten years 1880-1889. In the first five tables the two years of report alone are taken into consideration, the items being gathered from the transportation volume issued for the census of 1880 and from the schedules of the present inquiry.

The eleven tables, 29 to 39, inclusive, have been largely made up from information furnished this office by the Commissioner of Navigation. In Table 29 there are given the figures showing the number and tonnage of all steamers, sailing vessels, and barges registered in the customs districts of the Pacific coast for the ten years 1880-1889. In Tables 30, 31, 32, and 33 the number, aggregate, and average tonnage of each steamer, sailing vessel, and barge fleet belonging to each district is given for the decade in question. Tables 34, 35, 36, and 37 give the fluctuations of the annual average number and annual average tonnage of all vessels registered in the different customs districts. Tables 38 and 39 are records of the shipbuilding for the period in question, the first giving the number and tonnage of all steamers, sailing vessels, and barges built during those years in the various customs districts, and the second furnishing the number and tonnage of all steamers built in the various districts, arranged according to their methods of propulsion; that is, whether propellers, or side-wheel or stern-wheel steamers.

CONGRESSIONAL APPROPRIATIONS.

The last of the tables (Table 40) gives the amount appropriated by Congress for the survey, improvement, and maintenance of the ports, harbors, and landings on the Pacific coast and of the rivers flowing into them, from the date of the earliest appropriation down to and including that of the act of Congress of September 19, 1890. These sums, so far as the grouping of periods is concerned, are given: first, up to and including 1879; second, from 1880 to 1889, inclusive; third, the appropriations in 1890; and fourth, the total appropriations from first to last. So far as localities are concerned, these sums are given with considerable detail, the items not only being furnished for each state but for each locality on which the government money has been spent or for which it has been appropriated.

WHAT THE TABLES SHOW.

Passing from a consideration of the plan of the tables to that of the data contained in them, and taking them up in their order, the first fact to be noticed is that on the Pacific coast, in the year ended December 31, 1889, the floating equipment numbered 1,842 craft, having a tonnage of 441,939, and an estimated commercial value as returned in the schedules of \$23,067,370. Of this fleet 531 were steamers with a tonnage of 170,503 and a value of \$15,526,455; 822 were sailing vessels with a tonnage of 208,080 and a value of \$6,715,570, and 489 unriggered craft with a tonnage of 63,356 and a value of \$825,345. Of these totals California had 251 steamers with a tonnage of 106,667 and a value of \$9,792,905; 697 sailing vessels with a tonnage of 162,946 and a value of \$5,753,975, and 229 unriggered craft with a tonnage of 35,273 and a value of \$601,200; Oregon had 165 steamers with a tonnage of 50,628 and a value of \$4,492,200; 43 sailing vessels with a tonnage of 2,776 and a value of \$97,065, and 158 unriggered craft with a tonnage of 15,559 and a value of \$144,100; and Washington had 115 steamers with a tonnage of 13,208 and a value of \$1,241,350; 82 sailing vessels with a tonnage of 42,358 and a value of \$864,530, and 102 unriggered craft with a tonnage of 12,524 and a value of \$80,045. As will be seen by examining Table 1, the particulars of the fleets are given for each of the 9 customs districts located in the states of California, Oregon, and Washington, the relative importance of each of these districts being clearly shown by their entries. That of San Francisco preponderates, its fleet numbering 1,018 out of a total of 1,842, its tonnage amounting to 289,750 out of a total of 441,939, and the value of its fleet reaching \$15,400,205 out of a total of \$23,067,370. It must be remembered that the figures for the district of Puget sound (299 craft with a tonnage of 68,090 and a value of \$2,185,925) really cover all the shipping belonging to the state of Washington, while in Oregon there are four districts, three of which, southern Oregon, Oregon, and Willamette, respectively, represent the ports of Coos bay, Astoria, and Portland, the fleet of southern Oregon standing at 109 craft, with a tonnage of 3,887 and a value of

\$99,290; that of Oregon being 105, with a tonnage of 5,353 and a value of \$347,990, and that of Willamette being 136, with a tonnage of 57,402 and a value of \$3,998,485. This large value of the Portland fleet is due to the fact that out of its whole fleet 96 are steamers with a value of \$3,850,100, while Astoria has only 41 steamers with a value of \$284,100, and Coos bay 15 steamers with a value of \$70,600.

In Table 2 the 1,842 craft which constituted the total fleet of the Pacific coast are divided into their classes of occupation or pursuit, entries being made to show the number, gross tonnage, gross valuation, and value per ton of passenger and freight boats, sail and steam, ferryboats, harbor tugs, pilot boats, pleasure craft, fishing vessels, unriggered craft, and those miscellaneous vessels which furnished no report of traffic operations. From the figures so presented the following summarized results are obtained:

TABLE B.—SUMMARY SHOWING THE NUMBER, GROSS TONNAGE, AND ESTIMATED COMMERCIAL VALUE OF THE PRINCIPAL CLASSES OF VESSELS OWNED ON THE PACIFIC COAST IN 1889.

CLASSES OF VESSELS.	Number of vessels.	Gross tonnage.	Valuation.
Total	1,842	441,939	\$23,067,370
Steamers	531	170,503	15,526,455
Passenger and freight	354	129,491	12,660,755
Ferry	38	24,630	979,300
Fish	24	4,343	411,500
Harbor tugs	70	6,109	1,120,800
Yachts	3	63	6,500
No traffic report	42	5,867	347,600
Sailing vessels	822	208,080	6,715,570
Freight	647	194,478	6,112,340
Fish	00	6,372	280,955
Pilot boats	9	418	49,700
Yachts	25	612	69,300
No traffic report	81	6,200	203,275
Unriggered craft	489	63,356	825,345

Material will also be found in Table 2 for a calculation showing the average tonnage, average commercial value, and average value per ton of the ten classes mentioned; and in the accompanying summary these averages will be found worked out for the six principal classes of vessels, the miscellaneous class here including yachts, fishing vessels, and those vessels for which no traffic was reported.

TABLE C.—SUMMARY SHOWING THE NUMBER, AVERAGE TONNAGE, AVERAGE VALUE PER VESSEL, AND AVERAGE VALUE PER GROSS TON OF THE PRINCIPAL CLASSES OF VESSELS OWNED ON THE PACIFIC COAST IN 1889.

CLASSES OF VESSELS.	Number of vessels.	Average tonnage.	Average commercial value.	Average value per gross ton.
Total	1,842	240	\$12,523	\$52.20
Steamers	531	321	29,240	91.06
Passenger and freight	354	366	35,765	97.77
Ferry	38	648	25,771	39.76
Harbor tugs	70	87	16,011	183.47
Miscellaneous	69	149	11,096	74.53
Sailing vessels	822	253	8,170	32.27
Freight	647	301	9,447	31.43
Pilot boats	9	46	5,522	118.90
Miscellaneous	166	79	3,335	41.98
Unriggered craft	489	130	1,688	13.03

VALUES.

It will be seen from this summary that the largest average tonnage was that of the ferryboats, 648, and that the sailing vessels and steamers engaged in freighting business ran very close in their average tonnage, the figures being respectively 301 and 366. The average value of these freighters, however, differed very materially, for, while the average value of the steam freighters was \$97.77 per gross ton, that of the sailing vessels was only \$31.43, the larger value of the steamers being due to the presence of machinery. It will be observed, too, in looking at Table 2, that the value per gross ton of passenger and freight steamers by no means keeps on an even basis in all localities, the lowest being in the Humboldt district, where the average value per gross ton was \$63.19, and the highest being at Wilmington, where it was \$197.75. The schedule calls for the "estimated commercial value", and the figures set down ran high or low according to the basis upon which the estimator placed his value. In some cases a man estimated his vessel at what it cost, in another case he estimated it only at what it would realize in sale; the insurance men had their estimate, while in many other cases the idea was rigidly held that the values would be used as a basis for taxation. The average value per gross ton of steam passenger and freight boats has been figured up to be \$97.77, and this, as in the case of the coast estimate for nearly all the classes, may be accepted as a reasonably close one.

With the exception of the ferryboats, the average value per ton of the principal classes of vessels on the Atlantic coast and Gulf of Mexico agrees very closely with that which has been arrived at on the Pacific coast. On the Atlantic coast the average value per gross ton of passenger and freight steamers is \$75.81, while on the Pacific coast it is \$97.77; that of harbor tugs on the Atlantic coast is \$166.29, while on the Pacific coast it is \$183.47. That of the sailing freighters on the Atlantic coast is \$30.77, while on the Pacific coast it is \$31.43, a difference of but 66 cents per ton. The parallelism of average is still closer in the case of the unriggered craft, that on the Atlantic coast being \$12.57 and on the Pacific coast \$13.03, a difference of but 46 cents per ton.

OWNERSHIP.

The statistics of ownership are only given for the 1,353 steamers and sailing vessels of the Pacific coast fleet, the data being grouped in Table 3 according to the various classes and in Table 4 according to the various localities. The ownership is treated under the three heads of individual, joint stock, and corporate, the number, aggregate tonnage, and valuation of each class of craft being given under each of these heads. It is seen from Table 3, for example, that of the 531 steamers of the Pacific coast 252 were owned by individuals, and that the tonnage and valuation of these individually owned steamers were 34,114 and \$3,147,650; that 25 of them, with a tonnage of 3,368 and a value of \$324,500, were owned by joint stock companies, and that the remaining 254, with a tonnage of 133,021 and a value of \$12,054,305, were owned by corporations. Of the 822 sailing vessels 742, with a tonnage of 166,591 and a value of \$5,853,465, were owned by individuals; 78, with a tonnage of 40,855 and a value of \$843,105, were owned by corporations, only 2, with a tonnage of 634 and a value of \$19,000, were owned by joint stock companies. Putting the steam and sail together, this will mean that out of the total fleet 994, with a tonnage of 200,705 and a value of \$9,001,115, were owned by individuals; that 27, with a tonnage of 4,002 and a value of \$343,500, were owned by joint stock companies, and that 332, with a tonnage of 173,876 and a value of \$12,897,410, were controlled by corporate ownership. The excess in the average tonnage of corporate owned vessels over those owned by individuals and joint stock companies is plainly set down in the subjoined summary:

TABLE D.—SUMMARY SHOWING THE AVERAGE TONNAGE OF STEAMERS AND SAILING VESSELS ON THE PACIFIC COAST OWNED BY INDIVIDUALS, JOINT STOCK COMPANIES, AND CORPORATIONS

CLASSES OF VESSELS.	AVERAGE TONNAGE PER VESSEL BY OWNERSHIP.		
	Individual.	Joint stock.	Corporation.
Total	202	148	524
Steamers	135	135	524
Sailing vessels	225	317	524

The relative character of the corporate ownership is also to be seen in the column of valuation, where it is shown that the value of the vessels so owned stands at \$12,897,410, or \$3,552,795 over and above the combined valuation of vessels owned by individuals and joint stock companies. In the subjoined summary are presented the totaled figures of number, tonnage, and value by ownership of each class of steamers and sailing vessels:

TABLE E.—SUMMARY SHOWING THE TOTALS OF NUMBER, TONNAGE, AND VALUE FOR EACH CLASS OF VESSELS ON THE PACIFIC COAST, GROUPED UNDER THE HEAD OF INDIVIDUAL, JOINT STOCK, AND CORPORATE OWNERSHIP.

CLASSES OF VESSELS.	Total number of vessels.	NUMBER AND TONNAGE BY OWNERSHIP.						VALUATION BY OWNERSHIP.		
		Individual.		Joint stock.		Corporate.		Individual.	Joint stock.	Corporate.
		Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.			
Total	1,353	994	200,705	27	4,002	332	173,876	\$9,001,115	\$343,500	\$12,897,410
Steamers	531	252	34,114	25	3,368	254	133,021	3,147,650	324,500	12,054,305
Passenger and freight	354	179	27,140	18	2,825	157	99,526	2,417,850	246,500	9,906,405
Ferry	38	7	202	2	216	29	24,212	28,600	13,000	937,700
Fish	24	5	626	2	149	17	3,568	45,000	24,000	342,500
Harbor tugs	70	33	2,189	3	178	34	3,742	440,800	41,000	639,000
Yachts	3	2	45			1	18	4,000		2,500
No traffic report	42	26	3,912			16	1,955	211,400		136,200
Sailing vessels	822	742	166,591	2	634	78	40,855	5,853,465	19,000	843,105
Freight	647	587	157,048	1	594	59	36,836	5,369,835	15,000	727,505
Fish	60	46	4,084	1	40	13	2,248	199,555	4,000	77,400
Pilot boats	9	8	354			1	64	39,700		10,000
Yachts	25	25	612					69,300		
No traffic report	81	76	4,493			5	1,707	175,075		28,200

Table 4 presents the figures of Table 3 grouped according to localities; that is, to each of the nine districts of the coast it allots the various classes of vessels and enters them up by number, tonnage, and value, according to ownership, and the substance of what is there presented may be adequately arrived at by those not interested in details through a study of the following summary table:

TABLE F.—SUMMARY SHOWING THE TOTALS OF NUMBER, TONNAGE, AND VALUE OF THE FLEET OF EACH DISTRICT ON THE PACIFIC COAST, GROUPED UNDER THE HEAD OF INDIVIDUAL, JOINT STOCK, AND CORPORATE OWNERSHIP.

CUSTOMS DISTRICTS.	Total number of vessels.	NUMBER AND TONNAGE BY OWNERSHIP.						VALUATION BY OWNERSHIP.		
		Individual.		Joint stock.		Corporate.		Individual.	Joint stock.	Corporate.
		Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.			
Total	1,353	994	200,705	27	4,002	332	173,876	\$9,001,115	\$343,500	\$12,897,410
Steamers	531	252	34,114	25	3,368	254	133,021	3,147,650	324,500	12,054,305
San Diego, California	8	2	29			6	771	8,500		54,000
Wilmington, California	10	2	48			8	885	7,500		181,000
San Francisco, California	223	78	16,533	15	2,656	130	84,960	1,674,500	227,000	7,557,965
Humboldt, California	10	8	598			2	187	71,500		11,000
Southern Oregon, Oregon	15	11	485	3	173	1	113	44,100	22,500	4,000
Yaquina, Oregon	13	10	2,010			3	271	210,400		77,000
Oregon, Oregon	41	26	2,083	3	121	12	968	185,100	17,000	82,000
Willamette, Oregon	96	35	5,480	2	216	59	38,708	370,400	13,000	3,466,700
Puget sound, Washington	115	80	6,848	2	202	33	6,158	575,650	45,000	629,700
Sailing vessels	822	742	166,591	2	634	78	40,855	5,853,465	19,000	843,105
San Diego, California	21	19	319			2	142	21,975		15,000
Wilmington, California	13	13	694					37,400		
San Francisco, California	649	601	145,766	1	594	47	12,159	5,060,300	15,000	358,800
Humboldt, California	14	14	3,272					245,500		
Southern Oregon, Oregon	1	1	90					8,000		
Oregon, Oregon	36	35	626			1	64	40,080		10,000
Willamette, Oregon	6	6	1,996					38,985		
Puget sound, Washington	82	53	13,828	1	40	28	28,490	401,225	4,000	459,305

STATISTICS OF TRANSPORTATION.

STATISTICS OF CONSTRUCTION.

Tables 5 and 6 present the same statistics, but in two methods. They correspond in the plan of their presentation with Tables 3 and 4. The first takes up each class as a group and for each of the districts on the coast enters up the number, tonnage, and value for each material of construction, whether wood, composite, or iron and steel; while in Table 6 the facts connected with materials of construction are assigned to localities. The figures of the tables show that iron and steel are not yet largely used as materials of construction on the Pacific coast, only 25 of the entire fleet of sailing vessels and steamers being so constructed, while vessels of composite construction are almost unknown. However, such vessels as are constructed of iron and steel are of unusually large tonnage. The following summary table shows how much larger is the average tonnage of vessels built of these materials than the average tonnage of vessels built of wood or composite:

TABLE G.—SUMMARY SHOWING THE AVERAGE TONNAGE AND AVERAGE VALUE PER TON OF VESSELS CONSTRUCTED OF WOOD, COMPOSITE, AND IRON AND STEEL.

CLASSES OF VESSELS.	MATERIALS OF CONSTRUCTION.					
	Wood.		Composite.		Iron and steel.	
	Average tonnage.	Average value per ton.	Average tonnage.	Average value per ton.	Average tonnage.	Average value per ton.
Total	247	\$46.86	649	\$84.75	1,968	\$137.33
Steamers	240	71.85	1,089	91.83	2,009	139.34
Sailing vessels	252	32.22	209	47.85	997	40.12

In the subjoined summary the main facts of the relative size and value of the different classes of craft constructed of the materials under consideration are given:

TABLE H.—SUMMARY SHOWING THE TOTALS OF NUMBER, TONNAGE, AND VALUE OF EACH CLASS OF VESSELS ON THE PACIFIC COAST, WHETHER CONSTRUCTED OF WOOD, COMPOSITE, OR IRON AND STEEL.

CLASSES OF VESSELS.	NUMBER AND TONNAGE BY MATERIALS OF CONSTRUCTION.						VALUATION BY MATERIALS OF CONSTRUCTION.		
	Wood.		Composite.		Iron and steel.		Wood.	Composite.	Iron and steel.
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.			
Total	1,326	328,076	2	1,298	25	49,209	\$15,373,960	\$110,000	\$6,758,065
Steamers	506	121,202	1	1,089	24	48,212	8,708,390	100,000	6,718,065
Passenger and freight ..	336	82,262	1	1,089	17	46,140	6,162,690	100,000	6,398,065
Ferry	37	24,215			1	415	939,300		40,000
Fishing	24	4,343					411,500		
Harbor tugs	66	5,540			4	569	985,800		135,000
Yachts	3	63					6,500		
No traffic report ..	40	4,779			2	1,088	202,600		145,000
Sailing vessels	820	206,874	1	209	1	997	6,665,570	10,000	40,000
Freight	645	193,272	1	209	1	997	6,062,340	10,000	40,000
Fish	60	6,372					280,955		
Pilot boats	9	418					49,700		
Yachts	25	612					69,300		
No traffic report ..	81	6,200					203,275		

TRAFFIC OPERATIONS.

From Table 7 it is seen that during the year of report the traffic movement of the Pacific coast fleet making returns amounted to 8,818,363 tons and 4,019,329 passengers. This traffic, it should be understood, is made up of that carried by steam or sailing vessels regularly engaged in the transportation of freight and passengers; the freight moved by towboats in freight laden lighters, scows, and other unrigged craft, together with lumber rafts, the traffic operations in this case being credited to the steamers doing the towing; that moved by unrigged craft, which was not reported on by any towing steamer, and which is therefore entered up as a separate account; the freight and passengers carried on ferryboats, with the exception of the traffic movement of the railroad ferryboats, and the freight traffic of those vessels owned by fishing concerns, but employed either to carry provisions and appliances to the men on the fishing grounds or to bring back their fish catch, and those engaged in carrying raw salmon to and bringing the canned fish from the canneries.

The ferryboats, independent of railroads, had a traffic of 14,772 tons freight and 2,639,095 passengers, these figures being included in the 8,818,363 tons freight and the 4,019,329 passengers, the traffic operations forming the base of this report. The railroad ferryboats carried 2,431,564 tons freight and 11,652,764 passengers, these figures being included in the report of "Transportation by railroads".

The railroad ferry business is not the only addition that should be made to the traffic report of the Pacific coast transportation by water. Another large set of figures is found in the freight movement of the steamers and sailing vessels registered in Atlantic ports but engaged wholly or partially in business on the Pacific coast. The steamers belonging to this class are those which form the western fleet of the Pacific Mail Steamship Company. These steamers were 10 in number, their terminals being San Francisco and Panama and San Francisco and Chinese ports, so that their freight movement distinctly belongs to the Pacific; whereas, from the fact that their home port is New York, the rules under which the census investigation was conducted required that that port should be credited with their equipment and income and expenditure. The freight and passenger movement, however, is to be credited to San Francisco, and is given in the following statement:

PACIFIC MAIL STEAMSHIP COMPANY'S FREIGHT AND PASSENGER TRAFFIC ON ITS
PACIFIC OCEAN SERVICE IN 1889.

FREIGHT.		TONS.
Through New York and through San Francisco freight via Panama.....		27, 808
Outward freight from San Francisco to Mexico and Central American coast points...		20, 041
Inward freight to San Francisco from coast points		39, 204
Total freight, Panama line.....		87, 053
Outward freight to China and Japan seas		20, 709
Inward freight to San Francisco from China and Japan seas		35, 701
Total freight, China line.....		56, 410
Total freight, both lines.....		143, 463
PASSENGERS.		NUMBER.
Outward bound passengers, both lines		5, 539
Inward bound passengers, both lines.....		4, 614
Total passengers, both lines.....		10, 153

In connection with these figures should be mentioned \$1,550,665 of treasure carried outward from San Francisco and \$80,788 brought inward on the Panama line, and \$6,905,541 of treasure carried outward from San Francisco and \$250,000 brought to San Francisco on the China line, a total treasure movement of \$8,786,994, of which \$8,456,206 were taken out and \$330,788 were brought in.

The sailing vessels hailing from Atlantic home ports but conducting all or some portion of their operations in Pacific waters were 86 in number, distributed among Maine, Massachusetts, and New York ports as follows:

Belfast, Maine.....	1	Wiscasset, Maine.....	1	Portland, Maine.....	3
Searsport, Maine	3	Waldoboro, Maine.....	3	Boston, Massachusetts	12
Thomaston, Maine.....	5	Damariscotta, Maine	3	New Bedford, Massachusetts.....	4
Camden, Maine	3	Bath, Maine	28	New York, New York	20

These vessels did a general freighting business during 1889, and that part of it which is credited to the Pacific coast includes the freighting between domestic Pacific ports or from domestic Pacific to foreign ports; that is, it covers such operations as the carrying of wheat from San Francisco, California, to Liverpool, England, or from Portland, Oregon, to Hull, England; the carrying of lumber from Port Townsend, Washington, to Buenos Ayres, South America, or of sulphur from Yokohama, Japan, to San Francisco, California. In the conduct of this business these vessels made 686 trips, sailed over 1,240,533 miles, and carried 296,299 tons of merchandise.

In a computation conducted upon the lines laid down for this report mention should also be made of those craft trading to Pacific coast ports flying foreign flags but chartered by American concerns or individuals. The port of San Francisco presents eight examples of this kind. Two of these (steamers) sailed, respectively, under the Mexican and Hawaiian flags, and were engaged in bringing coal (some 8,000 tons) from Nanaimo, British Columbia, to San Francisco. Three other steamers formed the fleet of the Occidental and Oriental Steamship Company. They were under charter from an English company, and in 1889 carried out 25,589 tons of merchandise and \$10,218,525 of treasure and brought in 44,686 tons of merchandise and \$10,229,225 of bullion. In addition to this the Occidental and Oriental Steamship Company in 1889 carried 20,288 passengers. Two other steamers carried the Hawaiian flag and ran from San Francisco in the Australian and Sandwich islands trade, their operations standing for the movement of 34,887 tons of merchandise. The last example was a sailing vessel, and also flew the Hawaiian flag, but her operations could not be learned.

An addition to the above account of freight moved comes from an investigation into the towing business, not that of the towing of vessels in or out of harbor, but (1) the towing of barges, lighters, etc., and (2) the towing of logs and other lumber. It should be repeated here that the 314,597 tons of freight set down in Table 7 as the work of the unrigged do not stand as the total freight movement of the 489 unrigged, but only as the freight movement not reported by the steamers furnishing the motive power for these unrigged craft; and it is certain that, although a very great deal of towed freight is covered in the report of the steamers towing, the 314,597 tons of freight not so covered by no means make up the balance of freight moved in unrigged craft on the Pacific coast in 1889. There are two reasons for this:

(1) In the California ports comparatively little towing is done and the reports can be looked upon as reasonably complete; but in the northern rivers and on Puget sound the conditions are quite different. On Puget sound, for example, the commodities towed were chiefly farm produce, lumber, brick, stone, and lime. As a rule the barges and scows on which these commodities were placed are loaded by the shipper, while in very many cases these barges are owned by farmers, produce dealers, lumbermen, and those living generally along the sound. The same remarks may be applied to the barge business of the Columbia and Willamette rivers, of Shoalwater bay, and of rivers tributary or neighboring to these waterways. In order to get a certain base for an estimate a special attempt was made to secure full returns of the unrigged craft in Coos bay district. This, by the kind assistance of the collector of customs at that place, was satisfactorily accomplished, and the result is embodied in Table 7. Altogether, figuring on such estimates as these from direct but general information and from the reports of steamer captains, it would be a legitimate and proper calculation to add a freight movement of at least 700,000 tons to the unrigged business of the Pacific coast.

(2) Besides towing barges the steamboats of the northern ports were used for towing logs and rafts of lumber. Very diligent efforts were made from the outset to secure a full report of the amount of logs so towed, but it was found an impossibility, and it can be reasonably affirmed that in the schedules of Coos bay, Port Townsend, Astoria, Yaquina, Portland, and Eureka there should be 1,500,000 tons of logs, in round numbers, that do not find a place there.

DETAILS OF COMMODITIES.

An analysis of Pacific coast freight traffic can only be made of the 8,818,363 tons of freight whose movement was reported on in the census schedules. The first step in this analysis will be found in Table 8, in the form of a subdivision of this gross amount into the six following principal classes of commodities: agricultural products, coal, products of mines and quarries, lumber and other forest products, animal products including fish, manufactures and general merchandise.

The agricultural products include the yield alike of field, orchard, and garden, both at home and abroad.

The products of mines and quarries include rock, gravel (largely used in the manufacture of artificial stone pavement), ore, building stone, and salt.

Lumber and other forest products include match wood, railroad ties, piles, charcoal, and tan bark.

Animal products include live stock, wool, hides, fish, whale oil, seal skins, otter skins, dogfish oil, elk hides, elk horn, and kindred articles.

Manufactures and general merchandise include all such commodities as were returned by their carriers in the lump sum.

The Panama steamers brought as inward freight from Mexican and Central American ports to San Francisco sugar, coffee, cocoa, cochineal, limes, hides, skins, and ores; the freight taken to southern ports from San Francisco includes boilers, barbed wire and wire goods, beef and pork, car and railroad materials, canned goods, provisions, lumber, machinery, nails, live stock, silk goods, and wheat; the materials brought from China to San Francisco by the Pacific Mail Steamship Company's steamers consisted chiefly of beans, Java coffee, curios, indigo, gunny bags, hemp, jute, opium, rice, silk goods and raw silk, spices, manilla sugar, tea and tea dust, chowchow, bamboo, matting, plants and trees, rattan, tapioca, and tobacco; and the commodities carried from San Francisco to China and Japan consisted chiefly of animals, poultry, pearl barley, beans and peas, canned goods, flour, fruit and vegetables, ginseng, grain, groceries, hay, horns and hoofs, leather, lumber, machinery and castings, oil, quicksilver, shrimps and shrimp shells (sometimes running as high as 500 tons per steamer), dried fish, old junk (especially wire rope used for making nails), old glass (for glazing purposes), abalones, clocks (once a large trade), and corpses.

Omitting the 1,754,001 tons of manufactures and general merchandise, it will be seen that the largest commodity movement was in lumber and other forest products, the figures standing at 4,239,656 tons. Next come agricultural products, 1,152,100 tons, closely followed by coal, 1,075,600 tons. The last item, with the exception of animal products, fish, etc., which has already been referred to, is mines and quarries, the products of these amounting to 522,497 tons. Of these totals, the steamers moved 851,041 tons of agricultural products, 407,635 tons of coal, 305,551 tons of the products of mines and quarries, 3,023,547 tons of lumber and other forest products, 30,700 tons of animal products, and 1,123,460 tons of manufactures and general merchandise. Sailing vessels carried 262,559 tons of agricultural products, 627,995 tons of coal, 214,946 tons of the products of mines and quarries, 1,154,325 tons of lumber and other forest products, 43,803 tons of animal products, and 458,198 tons of manufactures and general merchandise. On the unrigged craft there was carried, over and above that reported by the steamers furnishing the motive power, 38,500 tons of agricultural products, 39,970 tons of coal, 2,000 tons of the products of mines and quarries, 61,784 tons of lumber and other forest products, and 172,343 tons of manufactures and general merchandise.

INTERDISTRICT TRAFFIC.

The figures of Table 8 are valuable only as showing the amount of freight moved by the fleets belonging to each of the customs districts and must not be taken as showing the traffic of any one port. It was to arrive at this result that the scheme of interdistrict movement, described on page 12, has been formulated and carried out. This is shown in detail in Tables 9 and 10. In these tables the 8,818,363 tons of freight, whose components were shown in Table 8, still form the total, and the entries show whither this freight was carried, whence it was brought, and how many miles were covered in its distribution. The entries were made so as to show the traffic movement of steamers with their unrigged consorts, of sailing vessels, and of the combined fleet for each district, while the same classification of commodities obtains in Table 9 that was observed in Table 8. The entries show that in nearly every case the vessels of each district traveled far in the disposition of their freight. It will be seen in the entries for the San Francisco fleet, for instance, that some of the vessels of that district carried 1,651 tons of coal and 896 tons of other products from points in Puget sound to other points in Puget sound, and that they traveled 724 miles in so doing; that other San Francisco vessels carried 61,764 tons of lumber from Puget sound to foreign ports and covered 228,285 miles in the traffic; that other San Francisco vessels traveled between ports on the Oregon coast and ports on the southern California coast, carrying 6,576 tons of lumber and 220 tons of agricultural products, the distance of their voyages being 29,188 miles; that others sailed between southern California coast points and points in Alaska and the Bering sea, carrying 638 tons of general merchandise, and sailing 2,400 miles; and that others traded between foreign ports and foreign ports, carrying 24,916 tons of coal, 12,612 tons of lumber, 230 tons of animal products and fish, and 900 tons of other merchandise, and traveled 166,363 miles in this trade.

By internal traffic is meant the freight movement within the six coast districts, that is, from point to point in the districts embracing (1) southern California coast, (2) San Francisco bay and tributary rivers, (3) northern California coast, (4) Oregon coast, (5) Columbia and Willamette rivers, and (6) Puget sound and the sea coast of Washington.

By coastwise traffic is meant the freight movement between the points of any two of the coast districts described above.

By Atlantic traffic is meant the freight movement between United States Pacific and Atlantic coast points.

By foreign traffic is meant the freight movement between foreign ports and any other port, including trade between foreign port and foreign port.

By Alaska and Bering sea traffic is meant the freight movement between points on the Alaskan coast or Bering sea and any of the six coast districts.

The proposed segregation of freight movement under these heads is given in the following summary:

TABLE I.—SUMMARY SHOWING THE AMOUNT OF FREIGHT CARRIED AND MILES TRAVELED IN THE INTERDISTRICT TRAFFIC OF THE PACIFIC COAST, GROUPED UNDER THE HEADS OF INTERNAL, COASTWISE, ATLANTIC, FOREIGN, AND ALASKA AND BERING SEA TRADE.

WITHIN THE—	NUMBER.	
	Tons.	Miles.
Total	5,624,151	5,733,186
1 Southern California coast district.....	183,594	75,782
2 San Francisco bay and rivers district	2,043,051	2,526,889
3 Northern California coast district.....	174,536	41,957
4 Oregon coast district.....	206,742	133,374
5 Columbia and Willamette rivers district	590,405	1,207,394
6 Puget sound and Washington district.....	2,435,823	1,747,790

STATISTICS OF TRANSPORTATION.

TABLE I.—SUMMARY SHOWING THE AMOUNT OF FREIGHT CARRIED AND MILES TRAVELED IN THE INTERDISTRICT TRAFFIC OF THE PACIFIC COAST, ETC.—Continued.

COASTWISE TRAFFIC.

FROM—	TO—	Tons.	Miles.
Total coastwise traffic		2,372,825	3,153,432
Total		163,442	230,792
1 Southern California coast.....	2 San Francisco bay and rivers	161,308	134,485
1 Southern California coast.....	4 Oregon coast.....	27	17,305
1 Southern California coast.....	5 Columbia and Willamette rivers.....	1,942	19,632
1 Southern California coast.....	6 Puget sound and Washington	165	59,370
Total		483,825	1,234,290
2 San Francisco bay and rivers.....	1 Southern California coast.....	320,967	134,485
2 San Francisco bay and rivers.....	3 Northern California coast	39,883	328,366
2 San Francisco bay and rivers.....	4 Oregon coast	44,632	169,264
2 San Francisco bay and rivers.....	5 Columbia and Willamette rivers.....	14,293	38,933
2 San Francisco bay and rivers.....	6 Puget sound and Washington	64,050	563,242
Total		623,417	544,433
3 Northern California coast.....	1 Southern California coast.....	98,783	211,574
3 Northern California coast.....	2 San Francisco bay and rivers	522,434	328,797
3 Northern California coast	5 Columbia and Willamette rivers	1,260	2,080
3 Northern California coast.....	6 Puget sound and Washington	940	1,982
Total		209,845	238,302
4 Oregon coast.....	1 Southern California coast.....	17,276	52,539
4 Oregon coast.....	2 San Francisco bay and rivers	191,255	172,293
4 Oregon coast.....	5 Columbia and Willamette rivers.....	1,102	4,422
4 Oregon coast.....	6 Puget sound and Washington	212	9,048
Total		68,364	216,167
5 Columbia and Willamette rivers.....	1 Southern California coast.....	11,418	20,647
5 Columbia and Willamette rivers	2 San Francisco bay and rivers	42,720	155,905
5 Columbia and Willamette rivers.....	3 Northern California coast	2,445	1,094
5 Columbia and Willamette rivers.....	4 Oregon coast	4,085	16,722
5 Columbia and Willamette rivers.....	6 Puget sound and Washington	7,696	22,299
Total		823,932	688,948
6 Puget sound and Washington	1 Southern California coast.....	47,595	87,290
6 Puget sound and Washington	2 San Francisco bay and rivers	773,484	563,241
6 Puget sound and Washington	3 Northern California coast.....	321	2,630
6 Puget sound and Washington	4 Oregon coast.....	400	9,048
6 Puget sound and Washington	5 Columbia and Willamette rivers.....	2,132	26,739

ATLANTIC TRAFFIC.

Total		5,550	30,250
2 San Francisco bay and rivers	8 Atlantic ports.....	(a)	13,250
8 Atlantic ports.....	2 San Francisco bay and rivers.....	5,550	17,000

FOREIGN TRAFFIC.

Total foreign traffic.....		707,085	2,811,896
Total		278,997	1,392,720
1 Southern California coast.....	7 Foreign ports.....	4,720	62,374
2 San Francisco bay and rivers.....	7 Foreign ports.....	138,043	785,596
3 Northern California coast.....	7 Foreign ports.....	12,789	74,573
4 Oregon coast.....	7 Foreign ports.....	1,160	9,185
5 Columbia and Willamette rivers	7 Foreign ports.....	3,286	23,782
6 Puget sound and Washington	7 Foreign ports.....	115,238	418,305
8 Atlantic ports	7 Foreign ports.....	3,560	16,155
9 Alaska and Bering sea.....	7 Foreign ports.....	201	2,750
	a Ballast.....		

TABLE I.—SUMMARY SHOWING THE AMOUNT OF FREIGHT CARRIED AND MILES TRAVELED IN THE INTERDISTRICT TRAFFIC OF THE PACIFIC COAST, ETC.—Continued.

FOREIGN TRAFFIC—Continued.

FROM—	TO—	Tons.	Miles.
Total		389,310	1,250,287
7 Foreign	1 Southern California coast	39,594	82,211
7 Foreign	2 San Francisco bay and rivers	319,880	782,505
7 Foreign	3 Columbia and Willamette rivers	5,448	30,873
7 Foreign	6 Puget sound and Washington	18,718	328,111
7 Foreign	8 Atlantic ports	3,136	16,155
7 Foreign	9 Alaska and Bering sea	2,534	10,432
7 Wholly foreign		38,778	168,889

ALASKA AND BERING SEA TRAFFIC.

Total Bering sea traffic		98,752	544,751
Total		50,795	288,589
1 Southern California coast	9 Bering sea	638	2,400
2 San Francisco bay and rivers	9 Bering sea	49,357	234,830
3 Columbia and Willamette rivers	9 Bering sea	(a)	25,900
6 Puget sound and Washington	9 Bering sea	800	25,459
Total		47,774	245,546
9 Bering sea	2 San Francisco bay and rivers	45,946	234,831
9 Bering sea	6 Puget sound and Washington	1,828	10,715
9 Bering sea	9 Bering sea	183	10,616

(a) Ballast.

From the preceding summary it will be seen that the whole internal traffic amounted to the movement of 5,634,151 tons, and that while the internal trade of the San Francisco bay and rivers amounted to 2,043,051 tons, that of Puget sound district was even greater, amounting to 2,435,823 tons.

In considering the coastwise trade it will be seen that from points on the southern California coast to all other points on the Pacific coast there were sent out 163,442 tons; from points on the San Francisco bay and rivers, 483,825 tons; from the northern California coast, 623,417 tons; from the Oregon coast, 209,845 tons; from the Columbia and Willamette rivers, 68,364 tons, and from Puget sound, 823,932 tons, making a total of 2,372,825 tons of freight. This shows that the district from which the greatest coastwise trade emanated was No. 6, Puget sound and Washington. The explanation of this is found in the 773,484 tons of freight brought from Puget sound to San Francisco made up of 40,909 tons of coal and 167,850 tons of lumber. The next largest coastwise trade is that emanating from district No. 3, northern California coast, the bulk of this being 522,434 tons of freight, mostly lumber, brought to San Francisco.

The trade between Pacific coast ports and Atlantic ports was confined on the Pacific side to San Francisco, and even in this case the business done in American vessels registered in San Francisco was only one of imports, the 5,550 tons of freight received being general merchandise.

The foreign trade amounted to 707,085 tons, made up of 278,997 tons of exports, 389,310 tons of imports, and 38,778 tons of wholly foreign movement. As might naturally be expected from its importance, San Francisco stands first in the figures of exports and imports, these being respectively 138,043 and 319,880 tons. Puget sound stands next in importance as an exporter, the figures being 115,238 tons, although its imports fall to 18,718 tons. In the case of San Francisco, the exports are made up of coal, lumber, agricultural products, and general merchandise, while in the case of Puget sound they are comprised almost entirely of coal and lumber.

The Alaska and Bering sea trade is almost equally divided between exports and imports, the first being 50,795 tons, and the second 47,774 tons. With the exception of 638 tons of general merchandise taken by San Francisco vessels plying from southern California ports, and 800 tons of lumber taken in San Francisco vessels from Puget sound, all the trade to Alaska and Bering sea was conducted by San Francisco vessels plying from San Francisco. The trade from Alaska and Bering sea was mostly with San Francisco, the two great commodities being coal and animal products including fish.

MILEAGE.

The relation of the mileage of this traffic to the freight movement is very distinctly shown in the accompanying summary giving the freight moved, distance covered, and average distance of movement per ton of each class of traffic. The distance covered in the movement of the 5,634,151 tons of freight constituting the internal traffic was 5,733,186 miles, or an average movement per ton of 1.02 miles. The distance traveled in the coastwise traffic movement was 3,153,432 miles and the freight moved 2,372,825 tons, this giving an average movement per ton of 1.33 miles. The distance covered in the foreign freight traffic was 2,811,896 miles, or an average movement per ton of 3.98 miles. The average distance in the Atlantic business was even greater, being 5.45 miles, but this large average is due to the fact that of the 30,250 miles traveled, 13,250 miles were in ballast. The Alaska and Bering sea average movement per ton was the highest of all, being 5.52 miles, and this was partly due to the fact that of the 544,751 miles traveled, 25,900 were in ballast, and partly to the other fact that while the cruises in the Bering sea are exceedingly long the freight is much smaller than that of vessels engaged in usual lines of commerce.

TABLE J.—SUMMARY SHOWING THE FREIGHT MOVED, DISTANCE COVERED, AND AVERAGE DISTANCE OF EACH TON OF FREIGHT MOVED IN THE FIVE DIVISIONS OF TRAFFIC MOVEMENT BY ALL OPERATING CRAFT.

TRAFFIC MOVEMENT.	Freight moved. (Tons.)	Distance covered. (Miles.)	Average movement per ton. (Miles.)
Total	8,818,363	12,273,515	1.39
Internal	5,634,151	5,733,186	1.02
Coastwise	2,372,825	3,153,432	1.33
Foreign	707,085	2,811,896	3.98
Atlantic	5,550	30,250	5.45
Bering sea	98,752	544,751	5.52

EARNINGS AND EXPENSES.

In Table 11 the figures are given which show how the business of transportation by water paid during the year ended December 31, 1889, for all operating craft over 5 tons burden. These figures are furnished under the headings of gross earnings, expenses, and net earnings, and are given for the steamers and unrigged craft and for sailing vessels allotted to their customs districts. The figures in the first part of the table indicate that the gross earnings of the whole operating fleet amounted to \$20,628,316.28, the expenses to \$17,274,809.30, leaving the net earnings at \$3,353,506.98. The largest figures of this total are for the district of San Francisco, the gross earnings of its operating fleet standing at \$14,191,341.93, with expenses of \$11,701,926.71 and net earnings at \$2,489,415.22. The next largest account is that of the Willamette or Portland district, its fleet earning \$3,439,199.57, paying out \$3,088,220.32, and making as net earnings \$350,979.25. The net earnings of the Puget sound or Port Townsend district fleet were much larger, the figures being \$411,862.61, which is larger than the net earnings of the fleet registered in all the districts of Oregon, this sum being a profit on the gross earnings of \$2,214,731.23, after paying out \$1,802,868.62 for expenses. The other districts placed in the order of their importance as judged from the financial account stand as Oregon, Humboldt, Yaquina, Wilmington, southern district of Oregon, and San Diego.

Of the totals of the combined fleets the gross earnings of the operating steamers and unrigged craft amounted to \$13,237,222.29, the expenses to \$11,446,692.77, and the net earnings to \$1,790,529.52. San Francisco maintains its importance in the returns of the steamers' accounts just as it did in the returns of the entire fleet, the gross earnings being \$8,015,094.94, the expenses \$6,872,414.76, and the net earnings \$1,142,680.18. The Willamette district also retains its relative importance, the gross earnings being \$3,383,404.26, the expenses \$3,050,676.43, and the net earnings \$332,727.83. Puget sound again comes third, the gross earnings of its steam and unrigged fleet being \$1,241,116.20, the expenses \$988,892.50, and its net earnings \$252,223.70. The steamers of the Oregon or Astoria district and the southern Oregon or Coos bay district made a presentable showing of net earnings, these being \$45,229.11 on gross earnings of \$212,478.11 for Oregon and \$14,093.97 on \$56,499.33 for southern Oregon. The steamers of Wilmington and Humboldt or Eureka districts make a poor showing. Of \$64,406.14 of gross earnings the expenses of running the Wilmington steamers amounted to \$63,576.84, leaving net earnings of only \$829.30; and while the gross earnings of the Humboldt steamers amounted to \$102,488.21, the expenses amounted to \$87,232.30, leaving net earnings of only \$15,255.91. The steamers of the San Diego and Yaquina districts ran even less profitably, the account of San Diego showing gross earnings of \$42,507.47, with expenses of \$45,985.04, leaving a deficit of \$3,477.57; and the account of Yaquina showing earnings amounting to \$119,227.63, expenses to \$128,260.54, leaving a deficit of \$9,032.91.

In the financial account of the sailing vessels a steady rate of profit is maintained. The gross earnings were \$7,391,093.99, the expenses \$5,828,116.53, leaving net earnings of \$1,562,977.46, or but very little less than the

net earnings in the \$13,237,222.29 gross earnings of the steamers. The figures of the different districts need not be quoted, except in the cases of Willamette and Puget sound. In the returns of the steamer fleet Willamette easily led, but in the figures of the sailing fleet the positions are reversed. The gross earnings of the Puget sound sailing vessels were \$973,615.03, while those of Willamette were but \$55,795.31, and the net earnings of Puget sound sailing vessels were \$159,638.91, while those of the Willamette sailing vessels were but \$18,251.42.

The classes or occupations for which the account of earnings and expenses has been made up are passenger and freight vessels, ferryboats, fishing vessels, harbor tugs, and pilot boats. Their financial account is given in detail in Tables 16 to 23, inclusive, entitled "General operations by classes". The earnings and expenses of the five classes will be found in the accompanying summary. The gross earnings and the expenses of pilot boats are equal, since the pilots do not report their professional earnings. The boats are used simply to carry the pilots to vessels and the earnings of the boats as such are the expenses of maintaining crew and equipment. The gain or loss is that of pilotage, not that of running the boats.

TABLE K.—SUMMARY SHOWING THE TOTAL EARNINGS AND EXPENSES OF THE OPERATING FLEET OF THE PACIFIC COAST.

CLASSES OF OCCUPATIONS.	Gross earnings.	Expenses.	Net earnings.
Total	\$20, 028, 316. 28	\$17, 274, 809. 30	\$3, 353, 506. 98
Passenger and freight	18, 112, 955. 63	14, 898, 141. 32	3, 214, 814. 31
Ferryboats	994, 475. 95	964, 904. 32	29, 571. 63
Fishing vessels	719, 872. 25	697, 836. 45	22, 035. 80
Harbor tugs	765, 305. 72	678, 220. 48	87, 085. 24
Pilot boats	35, 706. 73	35, 706. 73	.....

In Table 12 the \$14,898,141.32 of expenses which were reported for the 1,001 vessels engaged in traffic operations exclusive of ferryboats are reduced to the principal items making up the sum. These items are port charges, wages, provisions, current repairs, fuel (for the steamers), commissions, insurance, taxes, and office expenses, together with two entries for what other running and shore expenses may not have been included in the list of items just quoted. These items of expenses are distributed among the steamers and sailing vessels for each district of registration with totals for the states and coast. The expenses of the unriggered craft are included in the accounts of the steamers. By far the largest item of expenses was that of wages, the figures being \$5,212,639.20, of which amount \$2,924,205.19 were paid on board the steamers and \$2,288,434.01 on board the sailing vessels. Of the total wages San Francisco paid \$1,655,683.25 to steamer hands and \$1,904,194.72 to the crews of the sailing vessels, while the Willamette or Portland shipowners paid out \$694,578.16 to the officers and men of the combined fleet, Puget sound's wage list for the steamers and sailing vessels being \$583,069.31.

The next largest item of expense was that of fuel, the cost of which amounted to \$2,094,523.42. Provisions cost \$1,507,183.73, of which \$832,191.57 were expended on steamers, and \$674,992.16 on sailing vessels; current repairs cost \$1,098,232.29, the steamers' portion of that expense being \$613,703.33 and the sailing vessels' part being \$484,528.96. The cost of insuring the steamers was \$384,795.87 and the sailing vessels \$158,142.14. Port charges of the coast freighting fleet amounted to \$292,085.09, commissions to \$175,080.30, and taxes to \$125,655.76.

EMPLOYÉS AND WAGES.

Table 13 treats in detail of the monthly wages of all classes of employés on vessels engaged in the transportation of passengers and freight on the Pacific coast in the year 1889, exclusive of ferryboats. Of these employés the steamer list (which contains the account of the crews of the unriggered craft) includes captains, first mates, second mates, third mates, boatswains, clerks, pursers, surgeons, first engineers, second engineers, third engineers, firemen, coal passers, wheelmen, pilots, lookouts, watchmen, cooks, bakers, cooks' assistants, pantrymen, butchers, seamen, deck hands, porters, oilers, water tenders, stewards, storekeepers, waiters, boys, chambermaids, stewardesses, and carpenters; while the sailing vessel list includes captains, first mates, second mates, clerks, wheelmen, pilots, lookouts, watchmen, cooks, cooks' assistants, seamen, stewards, boys, and carpenters. The number of each class of employés for steamers and sailing vessels is given by districts for the coast and in a comprehensive total. From this latter have been worked out the accompanying summaries which show the aggregate and average monthly payments made to each class.

STATISTICS OF TRANSPORTATION.

TABLE L.—SUMMARY SHOWING THE AGGREGATE AND AVERAGE MONTHLY WAGES PAID TO EACH GRADE OF EMPLOYÉS ON ALL VESSELS ENGAGED IN PASSENGER AND FREIGHT TRAFFIC ON THE PACIFIC COAST FOR ONE MONTH OF THE YEAR 1889, EXCLUSIVE OF FERRYBOATS.

EMPLOYÉS.	Number employed.	Aggregate wages for one month.	Average monthly wages.
Total	10,396	\$521,502.86	\$50.16
Captains	1,001	95,175.97	95.08
First mates	685	39,573.77	57.77
Second mates, third mates, and boatswains	432	20,756.16	48.05
Clerks and pursers	189	12,652.50	66.94
Surgeons	2	110.00	55.00
First engineers	353	35,798.54	101.41
Second and third engineers	251	18,650.00	74.30
Firemen and coal passers	657	29,847.26	45.43
Wheelmen and pilots	134	9,509.17	70.96
Lookouts	24	1,039.50	43.31
Watchmen	160	6,702.73	41.89
Cooks and bakers	726	35,339.45	48.68
Cooks' assistants, pantrymen, and butchers	393	10,952.28	27.87
Seamen	3,331	127,817.33	38.37
Deck hands and porters	939	38,344.25	40.84
Oilers and water tenders	172	8,053.37	46.82
Stewards and storekeepers	192	9,440.00	49.17
Waiters	455	11,612.58	25.52
Boys	163	3,858.00	23.67
Chambermaids and stewardesses	18	445.00	24.72
Carpenters	119	5,825.00	48.95

TABLE M.—SUMMARY SHOWING THE AGGREGATE AND AVERAGE MONTHLY WAGES PAID TO EACH GRADE OF EMPLOYÉS ON ALL STEAMERS ENGAGED IN PASSENGER AND FREIGHT TRAFFIC ON THE PACIFIC COAST FOR ONE MONTH OF THE YEAR 1889, EXCLUSIVE OF FERRYBOATS.

EMPLOYÉS.	Number employed.	Aggregate wages for one month.	Average monthly wages.
Total	5,825	\$311,545.22	\$53.48
Captains	354	41,271.46	116.59
First mates	286	18,783.87	65.68
Second mates, third mates, and boatswains	138	7,556.16	54.75
Clerks and pursers	188	12,552.50	66.77
Surgeons	2	110.00	55.00
First engineers	353	35,798.54	101.41
Second and third engineers	251	18,650.00	74.30
Firemen and coal passers	657	29,847.26	45.43
Wheelmen and pilots	128	9,204.17	71.91
Lookouts	19	844.50	44.45
Watchmen	153	6,407.73	41.88
Cooks and bakers	296	14,544.45	49.14
Cooks' assistants, pantrymen, and butchers	267	8,372.28	31.36
Seamen	800	35,090.10	43.86
Deck hands and porters	939	38,344.25	40.84
Oilers and water tenders	172	8,053.37	46.82
Stewards and storekeepers	177	8,870.00	50.11
Waiters	455	11,612.58	25.52
Boys	140	3,517.00	25.12
Chambermaids and stewardesses	18	445.00	24.72
Carpenters	32	1,670.00	52.19

TABLE N.—SUMMARY SHOWING THE AGGREGATE AND AVERAGE MONTHLY WAGES PAID TO EACH GRADE OF EMPLOYÉS ON ALL SAILING VESSELS ENGAGED IN PASSENGER AND FREIGHT TRAFFIC ON THE PACIFIC COAST FOR ONE MONTH OF THE YEAR 1889.

EMPLOYÉS.	Number employed.	Aggregate wages for one month.	Average monthly wages.
Total	4,571	\$209,957.64	\$45.93
Captains	647	53,904.51	83.31
First mates	399	20,789.90	52.11
Second mates, third mates, and boatswains	294	13,200.00	44.90
Clerks	1	100.00	100.00
Wheelmen and pilots	6	305.00	50.83
Lookouts	5	195.00	39.00
Watchmen	7	295.00	42.14
Cooks	430	20,795.00	48.36
Cooks' assistants	126	2,580.00	20.48
Seamen	2,531	92,727.23	36.64
Stewards	15	570.00	38.00
Boys	23	341.00	14.83
Carpenters	87	4,155.00	47.76

AVERAGES AND AGGREGATE WAGES.

So far the subject of employés, their number and wages, has only been considered in connection with the freight and passenger carrying vessels, exclusive of ferryboats, and for an illustrative month. In the eight tables numbered from 16 to 23, inclusive, treating of the general operations by classes, not only are the details of equipment and traffic operations given of all the different classes of vessels, but there is also given for each class such details of wages and employés as the number of common seamen employed in each district and state, the average wages paid to common seamen, the number of men of all grades making up the ordinary crews, the total number of men employed, and the total amount of money paid out as wages to officers and crews during the year. Gathering the facts presented in these tables, they are shown in the following summary:

TABLE O.—SUMMARY SHOWING TOTAL AND AVERAGE WAGES PAID ORDINARY CREWS AND TOTAL NUMBER OF MEN EMPLOYED ON ALL OPERATED VESSELS, OF EVERY CLASS OF OCCUPATION, ON THE PACIFIC COAST DURING THE YEAR 1889.

CLASSES OF OCCUPATIONS.	Common seamen employed.	Average wages per month paid common seamen.	Number making ordinary crews.	Total number of men employed at different times.	Total wages paid during year.
Total	4,302	\$38.36	12,181	33,656	\$6,127,450.69
Passenger and freight	3,331	38.37	10,396	30,332	5,212,639.20
Ferryboats	126	59.00	478	1,150	395,157.00
Fishing vessels	790	34.97	866	1,485	247,028.56
Harbor tugs	25	42.59	374	573	247,630.49
Pilot boats	14	33.77	31	71	16,310.00
Yachts and pleasure boats	16	36.68	36	45	8,685.44

In connection with the preceding summary two or three items are to be noted. In the first place, the "number of men employed" does not stand for the number of men who received a year's employment during 1889, but indicates the number of men to whom whole or partial employment was given during that year; that is, supposing the ordinary crew of a vessel was 6 men, and 14 men were shipped during the year, the vessel would be set down as having found employment. In the column entitled "ordinary crews" the such totals drawn from those of the operating vessels) reported on for the different ports. In the column entitled "total wages paid" the wages paid represent the total wages paid during the year at the average wages paid to the operations of this class of craft, making up the ordinary crews for such time as they were employed. The wages paid to the ordinary crews were given. included 16 seamen and the wages paid by the owner of that vessel. If the vessel was employed 10 months, then the amount set down would be \$3,260.

In a great number of cases the captain or owner of the vessel was not required to give an account of the wages paid to the crew, that consequently he could not give any account of the wages paid. The captain or owner should reckon as "wages paid" the amount of money paid to the crew.

or men had such been employed, and then to enter that amount up for the number of days during which the vessel was in service. The same plan was adopted in the case of the numerous San Francisco bay schooners, where the captain and deck hands were paid out of what is called the "stock"; that is, the gross earnings of the vessel, or where the fashion of the "lay" is followed, or when the captain was paid a percentage of earnings; so that by thus obtaining a uniform style of report the \$6,127,450.69 can be accepted as the amount actually paid out or which would have been paid to the persons making up the crew list of the 1,230 vessels reported on, figuring on the basis of the average rate of wages paid in Pacific coast ports.

NATIONALITY OF EMPLOYÉS.

The endeavor to secure a report on the nationality of the employés was only partially successful. No data are at hand from which to say whether the number of native born citizens of the United States who follow the sea is increasing or not on the Pacific coast, but the opinion of a few intelligent shipowners who were approached on the subject was that such a tendency did exist. The returns themselves show, at any rate, that with very few exceptions the masters of American vessels of large burden were American born. The great bulk of the "ordinary seamen" hailed from the Baltic districts and the north of Europe, which to the ship's master was known as Scandinavia, and whether a man was a Finn or a Hollander he was classed as a Scandinavian. Of those returned as coming from Great Britain and Ireland the majority were Welsh or Irish. The number of Chinese sailors was never large on the Pacific coast, and the 286 reported were either crews of foreign going steamers or cooks of big vessels. The term "other countries" is an all-embracing one, as may be gathered from the returns of two sample vessels. One, a lumber vessel, carried a crew of 18, including men and officers, although 78 were taken into partial employment during the year, and of this latter number Scotland furnished 1, the United States 19, Germany 1, England 1, Russia and Finland 16, Italy 2, China 6, Portugal 2, Norway 15, Sweden 15: while the second, a whaler, had a crew consisting of Americans, English, Greeks, Mexicans, Scandinavians, Indians, and Portuguese. Such information as could be secured on this subject is set down in the following summary:

TABLE P.—SUMMARY SHOWING THE PRINCIPAL NATIONALITIES OF OFFICERS AND MEN EMPLOYED ON OPERATING VESSELS REGISTERED IN PACIFIC COAST PORTS IN THE YEAR 1889.

STEAMERS, SAILING VESSELS, AND UNRIGGED CRAFT.						
DISTRICTS.	Total number of men employed at different times.	United States.	Scandinavia.	Great Britain and Ireland.	China.	Other countries.
Total for coast.....	33,656	5,074	12,309	1,163	286	14,824
California.....	25,139	2,199	10,167	575	60	12,138
San Diego	106	60	28	1		17
Wilmington	167	63	39	27	2	36
San Francisco	24,545	2,029	10,019	524	58	11,915
Humboldt	321	47	81	23		170
Oregon	1,497	1,181	631	288	144	2,253
Southern Oregon	76	50	15	4	1	6
Yaquina	318	68	22	2	12	214
Oregon	604	277	54	16	6	251
Willamette	3,499	786	540	266	125	1,782
Washington Puget sound.....	4,020	1,694	1,511	300	82	433

FUEL ACCOUNT.

been made of the fuel account in Table 15, wherein are set down the amounts of coal and Carpenters and freight steamers, ferryboats, harbor tugs, and steam yachts during the operating cost of the fuel. From this table it will be seen that the total cost of the fuel was which amounted to 371,977 tons, cost \$2,117,032.65; while the wood, of which 52, making the average price of the coal \$5.69 per ton and the average on the following page gives the quantities of fuel consumed.

TABLE Q.—SUMMARY SHOWING THE QUANTITIES OF COAL AND WOOD BURNED BY PASSENGER AND FREIGHT STEAMERS, FERRYBOATS, HARBOR TUGS, AND STEAM YACHTS REGISTERED IN PACIFIC COAST PORTS FOR THE YEAR 1889.

DISTRICTS.	Coal. (Tons.)	Wood. (Cords.)
Total for coast	371,977	163,669
California	291,980	14,299
San Diego	1,842	
Wilmington	1,878	2
San Francisco	286,625	10,953
Humboldt	1,635	3,342
Oregon	54,743	95,643
Southern Oregon	3	3,496
Yaquina	2,945	2,559
Oregon	79	14,896
Willamette	51,716	74,692
Washington, Puget sound	25,254	53,727

GENERAL OPERATIONS.

In the eight tables, 16 to 23, inclusive, the important figures given in the various presentations of equipment, traffic, and financial data are segregated and given for each class of vessel according to its occupation. These tables are drawn out as nearly as possible on a uniform plan. One or two entries, however, need explanation, even at the risk of some slight repetition.

Table 16, for instance, classes as freighters those vessels actually carrying freight, all towboats engaged in moving freight, and those craft owned by fishing concerns but used as freighters. The freight movement given under the head of unrigged in this table is that which was not reported on by any towing steamer, and is therefore entered up as a separate account.

The figures in Table 17, giving the freight and passenger traffic and the earnings and expenses of railroad ferryboats, were needed to make the report on the ferry industry a complete one.

Those vessels which were engaged in fishing, sealing, whaling, etc., but which only incidentally carried freight and whose earnings were from the sale of the catch, are the "fishing vessels", which are reported on separately in Table 18.

The harbor tugs reported on in Table 19 are those employed in the towing of vessels already reported on, and in all general harbor operations (except that of regularly towing barges and lumber), while the floating channel property referred to consists of dredgers, pile drivers, water boats, etc.

The yachts and pleasure boats given in Table 21 are, it should be remembered, those of over 5 tons burden, this minimum of tonnage excluding the small pleasure boats.

The number of vessels engaged in all of the occupations shown in Tables 16, 17, 18, 19, 20, and 21 does not, however, make up the total of those given in Table 1, "Equipment of fleets, all craft", although their income, expenditures, and traffic operations would make up the total of the returns given in Table 7, "Traffic in general", and Table 11, "Financial account in general". The difference in the equipment account is made up in Table 22, entitled "No traffic report". In this are given the number, tonnage, and value of all such craft as had no traffic report either because of being out of commission, from having been lost prior to or during 1889, because of being sold to foreign owners or being untraceable.

COMPARATIVE STATISTICS.

In considering the comparative statistics embraced in Tables 24 to 37, inclusive, it must be remembered that the figures are derived from two sources, according to the material at hand. The first five tables are made up from the data given in the transportation volume of the Tenth Census compared with such totals drawn from the report of the present census as could be comparatively presented. It may be repeated that the only branch of transportation on the Pacific coast fully reported on at the Tenth Census was that conducted by steamers, so that the tabulation of comparative census figures is necessarily restricted to the operations of this class of craft, though the number and tonnage of sailing vessels and unrigged craft were given.

The following summary was in the report on transportation for the Tenth Census:

PACIFIC COAST IN 1880.

There were 319 steamers owned on the Pacific coast in 1880. Of these steamers 178 were owned in California, 89 in Oregon, and 52 in Washington territory.

They measured 97,004.88 tons, and were valued at \$6,477,500, averaging 304.09 tons apiece, with an average value of \$20,306.

The capital invested in these steamers, exclusive of dock property, was \$8,854,490, and they gave employment to 3,008 men.

Gross earnings here were \$6,362,770, or 71.9 per cent on the capital invested. Excepting in the case of a few of the large and well established lines, money was lost in the competition with the railroads, and there has been a gradual withdrawal of lines for several years past in consequence of this competition. The amount paid for services here was \$1,953,451, or an average of \$649.41 per annum for each employé. The passenger movement was 6,604,712, of which 300,752 were regular passengers and 6,303,960 were ferry passengers. The freight movement was reported at 2,087,293 tons, of which 249,583 tons were carried by ocean steamers, 838,019 tons by inland passenger steamers, 240,298 tons by freight steamers, and 759,393 tons by ferry steamers.

The fuel consumed in this group, amounting to 146,407 tons of coal and 103,446 cords of wood, shows an average of 1.50 tons of coal to the ton of measurement and 1.06 cords of wood.

Table 24 shows that in 1880 the Pacific coast fleet of steamers and unrigged craft numbered 534, with a tonnage of 125,090 and a value of \$6,620,980, and that in 1889 the coast fleet of steamers and unrigged craft numbered 1,020, had a tonnage of 233,859 and a value of \$16,351,800, an increase of 486 in number, 108,769 tons in tonnage, and \$9,730,820 in value. This increase, it will be seen, is quite as much in the steamers as it is in the unrigged craft, and is about equally distributed between the fleets of California, Oregon, and Washington. The classification of the steamer fleets for both years has been made in Table 25 by passenger and freight carrying boats, ferryboats, towing and harbor tugs, and miscellaneous craft, and from this classification it is seen that the passenger and freight carrying craft in 1880 numbered 224, with a tonnage of 70,392 and a value of \$4,414,900, while in 1889 the freighters numbered 354, had a tonnage of 129,490 and a value of \$12,660,755, an increase of 130 in number, 59,098 in tonnage, and \$8,245,855 in value.

EARNINGS AND WAGES, 1880 AND 1889.

The financial account of the steamers in 1880 was limited to the gross earnings and wages, and only these are given for both years in Table 26, and because the returns in 1880 were made only for states, while in 1889 they were made for districts, the comparison by localities is limited to states. All that can be shown, therefore, is that in 1880 the gross earnings on all the reporting steamers of the Pacific coast amounted to \$6,362,770, while in 1889 they had risen to \$13,237,222, a gross increase of \$6,874,452 and an average annual increase of \$763,828. The amount paid out in wages on steamers in the years under consideration is given in Table 26, because it is the only item of expense that can be compared, but a better consideration of it can be had from a study of Table 27. Here again, as in all other tables dealing with employés, the entry entitled "Total number of men making up the ordinary crews", is to be accepted as indicating the total number of men required to work all the reporting steamers and not the total number of men employed during the year. The number of men making up the complement of the steamer crews in 1880 was 3,008, while in 1889 the number was 6,818. To these there was paid out as wages during 1880 \$1,953,451, while in 1889 the total wages paid amounted to \$3,682,062. The average annual wages per man in 1880 was \$649.42 and \$540.05 in 1889, an average annual decrease of \$109.37. It may be added that the average annual decrease for the states making up this average annual decrease for the coast was \$22.35 in California, \$275.85 in Oregon, and \$240.94 in Washington.

FREIGHT AND PASSENGER TRAFFIC, 1880 AND 1889.

The same remarkable increase that was seen in the number, tonnage, and value of the steamers of 1889 over those of 1880 is shown in the increase of freight and passenger traffic. In 1880 the freight moved on the steamers was 2,087,293 tons, while in 1889 it was 8,173,504 tons, an increase of 6,086,211 tons, or 292 per cent. It will be observed that in the freight movement of California the railroad ferry freight is also included in the 1889 figures, and this is done because the ferry figures were also included in the 1880 report. The passenger traffic in 1880 amounted to 6,604,712, while in 1889 there were 15,672,093 passengers.

FLEETS, 1880 AND 1889.

The comparative statistics found in Table 29 and the ten following tables have been gathered from the reports of the Bureau of Navigation. Table 29 gives the number and tonnage of the steamers, sailing vessels, and barges registered in each district of the Pacific coast for each year of the decade, the coast total for each year being given in a tabulated recapitulation. In this recapitulation it is shown that there has been a gradual but steady increase in the registered fleet of the coast during the ten years in question. In 1880, for instance, the registered sailing vessels numbered 752; in 1883 there were 812; in 1886 there were 829, and in 1889 there were 841. The tonnage of

the registered sailing vessels in 1880 was 148,400; in 1882 it was 167,351; in 1887 it was 189,702, and in 1889 it was 248,430. In 1880 the registered steamers numbered 305 with a tonnage of 110,415; in 1884 the registered steamers numbered 384 with a tonnage of 146,562; in 1887, 426 steamers were registered with a tonnage of 160,140; and in 1889, 517 steamers were registered with a tonnage of 180,496. On the other hand, the registered barge fleet shows a very decided drop in 1883, the number in 1882 being 68 with a tonnage of 12,980, while in 1883 it fell to 8 with a tonnage of 5,973, and there continued until after 1888, the reason for this diminution being that after 1882 the registration of unrigged craft was no longer compulsory. This fact, too, explains the discrepancy between the total for the 1889 fleet as reported by the Commissioner of Navigation and that reported by the census. The Commissioner of Navigation gives 9 barges with a tonnage of 6,078 as the registered fleet of unrigged, while the census gives 489 unrigged with a tonnage of 63,356 as the registered and unregistered fleet of unrigged. Leaving out the unrigged, the Commissioner of Navigation reports on 1,358 registered steamers and sailing vessels, while the census reports on 1,353 vessels.

Tables 30 to 37, inclusive, show the average tonnage of all steamers, sailing vessels, and unrigged craft registered in each district for the decade, the annual average number of vessels registered, and the fluctuations from that annual average for each district and for each year. The following summary presents the average tonnage per vessel of each year's registered fleet at a glance:

TABLE R.—SUMMARY SHOWING THE NUMBER, TONNAGE, AND AVERAGE TONNAGE OF ALL VESSELS REGISTERED IN THE PACIFIC COAST DISTRICTS FOR THE TEN YEARS, 1880-1889.

YEARS.	Number.	Tonnage.	Average tonnage.
1880.....	1,124	270,801.75	240.93
1881.....	1,128	284,425.60	252.15
1882.....	1,166	300,766.83	257.95
1883.....	1,169	326,944.94	279.68
1884.....	1,202	334,188.81	278.03
1885.....	1,250	360,110.56	288.09
1886.....	1,253	347,059.73	276.98
1887.....	1,217	355,814.58	292.37
1888.....	1,293	399,173.18	308.72
1889.....	1,367	435,004.14	318.22

The gradual increase in the average tonnage of the registered fleet is shown in the preceding tables, and the two summaries following show whether this increase is on the part of steamers or of the sailing vessels:

TABLE S.—SUMMARY SHOWING THE NUMBER, TONNAGE, AND AVERAGE TONNAGE OF ALL STEAMERS REGISTERED IN THE PACIFIC COAST DISTRICTS FOR THE TEN YEARS, 1880-1889.

YEARS.	Number.	Tonnage.	Average tonnage.
1880.....	305	110,414.61	362.02
1881.....	310	112,434.54	362.69
1882.....	326	120,434.94	369.43
1883.....	349	134,435.75	385.20
1884.....	384	146,561.82	381.67
1885.....	402	153,808.04	382.61
1886.....	416	150,320.30	375.77
1887.....	426	160,139.75	375.91
1888.....	459	168,268.58	366.60
1889.....	517	180,496.04	349.12

STATISTICS OF TRANSPORTATION.

TABLE T.—SUMMARY SHOWING THE NUMBER, TONNAGE, AND AVERAGE TONNAGE OF ALL SAILING VESSELS REGISTERED IN THE PACIFIC COAST DISTRICTS FOR THE TEN YEARS, 1880-1889.

YEARS.	Number.	Tonnage.	Average tonnage.
1880.....	752	148,400.41	197.34
1881.....	748	158,940.98	212.49
1882.....	772	167,351.44	216.78
1883.....	812	186,536.21	229.72
1884.....	818	187,626.99	229.37
1885.....	840	200,329.54	238.49
1886.....	829	184,766.45	222.88
1887.....	783	189,701.85	242.28
1888.....	826	224,931.62	272.31
1889.....	841	248,429.78	295.40

From these two summaries it is demonstrated that the increase of tonnage has been on the part of the sailing vessels. In 1880 the average tonnage of the registered fleet of steamers was 362.02, and while in 1883 it increased to 385.20, it decreased continuously from that time until in 1889 it was 349.12. On the other hand, while the average annual tonnage of the Pacific coast registered sailing vessels in 1880 was 197.34, it rose steadily from that to an average of 295.40 in 1889.

The numbers given in Tables S and T will not uniformly balance with the numbers for all vessels in Table R, since a separate statement for unrigged craft was not given for each year.

SHIPBUILDING RECORDS.

In Table 38 are set down the records of shipbuilding in the customs districts of the Pacific coast during the ten years 1880-1889. The following summary shows the number, tonnage, and average tonnage of the steamers and sailing vessels built during each year of the decade:

TABLE U.—SUMMARY SHOWING THE NUMBER, TONNAGE, AND AVERAGE TONNAGE OF THE STEAMERS AND SAILING VESSELS BUILT ON THE PACIFIC COAST IN THE TEN YEARS 1880-1889.

YEARS.	STEAMERS.			SAILING VESSELS.		
	Number.	Tonnage.	Average tonnage.	Number.	Tonnage.	Average tonnage.
Total for 10 years.....	369	68,351.18	185.23	390	58,353.33	149.62
1880.....	25	7,642.61	305.70	15	937.44	62.50
1881.....	21	3,010.41	143.35	35	7,382.15	210.92
1882.....	28	6,727.35	240.26	46	9,043.17	196.59
1883.....	34	4,019.17	118.21	56	11,547.84	206.21
1884.....	42	5,865.99	139.67	42	4,746.37	113.01
1885.....	38	8,867.37	233.35	35	2,133.91	60.97
1886.....	23	3,023.31	131.45	35	2,890.61	82.59
1887.....	32	3,750.45	117.20	39	5,355.79	137.33
1888.....	55	12,710.22	231.09	48	9,140.87	190.43
1889.....	71	12,734.30	179.36	39	5,175.18	132.70

Table 39, which is the last of the tables of comparative statistics, deals only with the steamers built in each of the ten years, and considers them under the various methods of propulsion; that is, whether propeller, side-wheel, or stern-wheel. From this table it is seen that of 369 steamers with a tonnage of 68,351.18, 241 were propellers with a tonnage of 31,728.75, 37 were side-wheelers with a tonnage of 16,133.22, and 91 were stern-wheelers with a tonnage of 20,489.21. The records of annual construction of these three classes of steamers are plainly exhibited in the summary on the following page.

TABLE V.—SUMMARY SHOWING THE NUMBER AND TONNAGE OF PROPELLERS AND SIDE-WHEEL AND STERN-WHEEL STEAMERS BUILT ON THE PACIFIC COAST DURING THE TEN YEARS 1880-1889.

YEARS.	METHODS OF PROPULSION.					
	Propeller.		Side-wheel.		Stern-wheel.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total for 10 years.....	241	31,728.75	37	16,133.22	91	20,489.21
1880.....	10	402.48	9	5,804.35	6	1,435.78
1881.....	10	887.12	4	325.06	7	1,798.23
1882.....	15	3,915.90	3	253.10	10	2,558.35
1883.....	27	3,097.03			7	922.14
1884.....	24	1,428.00	6	2,563.37	12	1,854.62
1885.....	22	3,219.04	5	2,998.51	11	2,649.82
1886.....	13	1,145.71			10	1,877.60
1887.....	26	2,720.48	2	347.62	4	682.35
1888.....	43	7,749.66	3	2,427.60	9	2,532.96
1889.....	51	7,163.33	5	1,393.61	15	4,177.36

CONGRESSIONAL APPROPRIATIONS.

In the last of the tables (Table 40) entitled "Congressional appropriations", it will be seen that the earliest appropriation made by the government for the improvement of the rivers and harbors of the Pacific coast was in 1852, when \$111,000 were set aside for the survey and improvement of San Diego river and harbor. Since that time nearly a hundred localities have been improved under congressional aid, the sums appropriated up to 1890 amounting to \$9,964,800. Of this amount \$2,315,000 were appropriated up to and including 1879, \$5,527,200 were included in the decade marked by 1880-1889, the remaining \$2,122,600 having been appropriated by the act of September 19, 1890.

Of the total amount, \$111,500 were appropriated for Washington, of which amount \$78,500 were appropriated between 1880 and 1889 and the remaining \$33,000 in 1890.

The appropriations for Oregon amounted to \$5,765,050, of which amount \$1,107,000 were appropriated up to and including 1879; \$3,164,950 in the ten years 1880-1889, and \$1,493,100 by the act of September 19, 1890.

The appropriations for California amounted to \$4,038,250, of which amount \$1,158,000 were appropriated up to and including 1879; \$2,283,750 were appropriated from 1880 to 1889, inclusive, and \$596,500 by the act of September 19, 1890.

Between the sum of these amounts, however, and the \$9,964,800 given as the total appropriations for the Pacific coast there is a difference of \$50,000, that sum being a general appropriation for which there was no indication of special locality, but which was made for such comprehensive purposes as general expenses and surveys.

Charged to the states the total appropriations are set down in the following summary:

TABLE W.—SUMMARY SHOWING THE AMOUNTS APPROPRIATED BY CONGRESS FOR THE SURVEY, IMPROVEMENT, AND MAINTENANCE OF THE HARBORS AND RIVERS OF THE PACIFIC COAST, GIVEN BY PERIODS AND ALLOTTED TO THE RESPECTIVE STATES FOR WHICH THE APPROPRIATIONS WERE MADE.

STATES.	Date of earliest appropriations.	Total appropriations up to date.	Appropriations up to and including 1879.	Appropriations from 1880-1889, inclusive.	Appropriations by act of Congress September 19, 1890.
Total		\$9,964,800	\$2,315,000	\$5,527,200	\$2,122,600
Washington	1880	111,500		78,500	33,000
Oregon	1866	5,765,050	1,107,000	3,164,950	1,493,100
California	1852	4,038,250	1,158,000	2,283,750	596,500
General expenses all states.	1866	50,000	50,000		

STATISTICS OF TRANSPORTATION.

LANDINGS AND DISTANCES.

In accordance with the plan pursued when treating of the other branches of water transportation, this text may be brought to a close by giving a list of the principal trading points on the Pacific coast, with the distances from the principal ports.

DISTANCES BETWEEN OLYMPIA, WASHINGTON, AND OTHER POINTS ON THE PACIFIC COAST OF THE UNITED STATES,
GOING SOUTH TO SAN DIEGO, CALIFORNIA.

	MILES.		MILES.		MILES.
Tacoma, Washington.....	40	Bay Center, Washington.....	335	Crescent, California.....	637
Seattle, Washington.....	56	Oysterville, Washington.....	340	Arcata, California.....	713
Skokomish, Washington.....	134	Ilwaco, Washington.....	351	Eureka, California.....	708
Freeport, Washington.....	54	Cape Disappointment, Washington...	346	Cape Mendocino, California.....	724
Dwamish, Washington.....	60	Knappton, Washington.....	360	Shelter Cove, California.....	756
Port Madison, Washington.....	60	Cathlamet, Washington.....	383	Westport, California.....	783
Snohomish, Washington.....	96	Kalama, Washington.....	416	Mendocino, California.....	805
Port Townsend, Washington.....	94	Vancouver, Washington.....	452	Navarro, California.....	816
Utsaladdy, Washington.....	105	Cascades, Washington.....	484	Point Arena, California.....	832
Stillaguamish, Washington.....	110	Salem, Oregon.....	516	Tomales, California.....	897
Laconner, Washington.....	115	Oregon city, Oregon.....	464	San Francisco, California.....	945
Fidalgo, Washington.....	130	Portland, Oregon.....	456	Mare island, California.....	967
Mount Vernon, Washington.....	125	St. Helen, Oregon.....	428	Oakland, California.....	950
Whatcom, Washington.....	145	Clifton, Oregon.....	380	Santa Cruz, California.....	999
Friday harbor, Washington.....	130	Knappa, Oregon.....	366	Castroville, California.....	1,010
New Dungeness, Washington.....	120	Astoria, Oregon.....	360	Monterey, California.....	1,010
Port Angeles, Washington.....	135	Skipanon, Oregon.....	356	Point Sur, California.....	1,031
Pysht, Washington.....	170	Port Klatsop, Oregon.....	357	San Simeon, California.....	1,096
Neah bay, Washington.....	195	Nehalem bay, Oregon.....	384	Cayucos, California.....	1,116
Cape Flattery, Washington.....	209	Tillamook head, Oregon.....	367	Port Harford, California.....	1,129
Quinault, Washington.....	276	Netarts bay, Oregon.....	400	Point Sal, California.....	1,145
Port Grenville, Washington.....	278	Cape Lookout, Oregon.....	405	Santa Barbara, California.....	1,223
Humptulips, Washington.....	313	Yaquina, Oregon.....	454	San Buenaventura, California.....	1,253
Grays harbor, Washington.....	308	Oysterville, Oregon.....	454	Hueneme, California.....	1,258
Hoquiam, Washington.....	317	Florence, Oregon.....	492	Santa Monica, California.....	1,302
Montesano, Washington.....	335	Empire city, Oregon.....	535	Wilmington, California.....	1,323
Chehalis, Washington.....	303	Coos city, Oregon.....	546	San Pedro, California.....	1,320
Cosmopolis, Washington.....	324	Cape Blanco, Oregon.....	562	San Juan Capistrano, California.....	1,356
Bay city, Washington.....	310	Port Orford, Oregon.....	573	Delmar, California.....	1,393
Petersons point, Washington.....	308	Ellensburg, Oregon.....	594	San Diego, California.....	1,420
Willapa, Washington.....	340	Chetco, Oregon.....	616		

DISTANCES BETWEEN SAN FRANCISCO, CALIFORNIA, AND OTHER POINTS ON THE PACIFIC COAST OF THE UNITED
STATES, GOING SOUTH TO SAN DIEGO, CALIFORNIA.

	MILES.		MILES.		MILES.
Mare island, California.....	23	Cayucos, California.....	204	Santa Monica, California.....	389
Oakland, California.....	5	Port Harford, California.....	216	Wilmington, California.....	410
Santa Cruz, California.....	80	Point Sal, California.....	232	San Pedro, California.....	407
Castroville, California.....	97	Santa Barbara, California.....	310	San Juan Capistrano, California.....	443
Monterey, California.....	97	San Buenaventura, California.....	340	Delmar, California.....	481
Point Sur, California.....	119	Hueneme, California.....	345	San Diego, California.....	508
San Simeon, California.....	184				

TRANSPORTATION ON THE PACIFIC COAST.

35

DISTANCES BETWEEN SAN FRANCISCO, CALIFORNIA, AND OTHER POINTS ON THE PACIFIC COAST OF THE UNITED STATES, GOING NORTH TO OLYMPIA, WASHINGTON.

	MILES.		MILES.		MILES.
Drake's bay, California.....	25	Port Klatsop, Oregon.....	589	Grays harbor, Washington.....	613
Tomales, California.....	54	Skipanon, Oregon.....	609	Humptulips, Washington.....	648
Point Arena, California.....	113	Astoria, Oregon.....	613	Port Grenville, Washington.....	667
Navarro, California.....	130	Knappa, Oregon.....	619	Quinault, Washington.....	670
Mendocino, California.....	140	Clifton, Oregon.....	633	Cape Flattery, Washington.....	745
Westport, California.....	162	St. Helen, Oregon.....	681	Neah bay, Washington.....	750
Shelter Cove, California.....	189	Portland, Oregon.....	709	Pysht, Washington.....	775
Cape Mendocino, California.....	221	Oregon city, Oregon.....	711	Port Angeles, Washington.....	810
Eureka or Humboldt bay, California..	248	Salem, Oregon.....	769	New Dungeness, Washington.....	825
Arcata, California.....	254	Cascades, Washington.....	737	Friday harbor, Washington.....	845
Trinidad bay, California.....	264	Vancouver, Washington.....	705	Whatecom, Washington.....	870
Crescent, California.....	308	Kalama, Washington.....	669	Mount Vernon, Washington.....	865
Chetco, Oregon.....	329	Cathlamet, Washington.....	636	Fidalgo, Washington.....	855
Ellensburg, Oregon.....	351	Knappton, Washington.....	613	Laconner, Washington.....	855
Port Orford, Oregon.....	373	Cape Disappointment, Washington....	599	Stillaguamish, Washington.....	860
Cape Blanco, Oregon.....	383	Ilwaco, Washington.....	605	Utsaladdy, Washington.....	857
Coos city, Oregon.....	427	Oysterville, Washington.....	637	Port Townsend, Washington.....	845
Empire city, Oregon.....	416	Bay Center, Washington.....	632	Snohomish, Washington.....	895
Florence, Oregon.....	464	Willapa, Washington.....	637	Port Madison, Washington.....	880
Oysterville, Oregon.....	508	Petersons point, Washington.....	643	Dwamish, Washington.....	895
Yaquina, Oregon.....	508	Bay city, Washington.....	645	Freeport, Washington.....	888
Cape Lookout, Oregon.....	540	Cosmopolis, Washington.....	659	Skokomish, Washington.....	905
Netarts bay, Oregon.....	545	Chehalis, Washington.....	637	Seattle, Washington.....	890
Tillamook head, Oregon.....	578	Montesano, Washington.....	670	Tacoma, Washington.....	915
Nehalem bay, Oregon.....	562	Hoquiam, Washington.....	651	Olympia, Washington.....	945

DISTANCES BETWEEN PORTLAND, OREGON, AND OTHER POINTS ON THE PACIFIC COAST OF THE UNITED STATES, GOING NORTH TO OLYMPIA, WASHINGTON.

	MILES.		MILES.		MILES.
Oregon city, Oregon	12	Chehalis, Washington.....	148	Mount Vernon, Washington	376
Salem, Oregon	60	Montesano, Washington	181	Fidalgo, Washington	366
Cascades, Washington	52	Hoquiam, Washington	162	Lacconner, Washington	366
Vancouver, Washington	18	Grays harbor, Washington.....	154	Stillaguamish, Washington.....	371
Kalama, Washington	40	Humptulips, Washington.....	159	Utsaladdy, Washington	368
Cathlamet, Washington.....	73	Port Grenville, Washington.....	178	Port Townsend, Washington	356
Knappton, Washington	96	Quinault, Washington	181	Snohomish, Washington	406
Cape Disappointment, Washington....	110	Cape Flattery, Washington	256	Port Madison, Washington	391
Ilwaco, Washington	105	Neah bay, Washington	261	Dwamish, Washington	406
Oysterville, Washington	148	Pysht, Washington	286	Freeport, Washington	399
Bay Center, Washington.....	143	Port Angeles, Washington	321	Skokomish, Washington	416
Willapa, Washington	148	New Dungeness, Washington.....	336	Seattle, Washington	401
Petersons point, Washington	154	Friday harbor, Washington.....	356	Tacoma, Washington	426
Bay city, Washington	156	Whatcom, Washington.....	381	Olympia, Washington.....	456
Cosmopolis, Washington	170				

DISTANCES BETWEEN PORTLAND, OREGON, AND OTHER POINTS ON THE PACIFIC COAST OF THE UNITED STATES, GOING SOUTH TO SAN DIEGO, CALIFORNIA.

	MILES.		MILES.		MILES.
St. Helen, Oregon	28	Ellensburg, Oregon	357	Castroville, California.....	774
Clifton, Oregon	76	Chetco, Oregon	379	Monterey, California	774
Knappa, Oregon	82	Crescent, California.....	400	Point Sur, California.....	795
Astoria, Oregon	96	Arcata, California	476	San Simeon, California	860
Skipanon, Oregon	100	Eureka, California	471	Cayucos, California	880
Port Klatsop, Oregon.....	120	Cape Mendocino, California.....	487	Port Harford, California..	893
Nehalem bay, Oregon.....	147	Shelter Cove, California.....	519	Point Sal, California	909
Tillamook head, Oregon	130	Westport, California	546	Santa Barbara, California	1,087
Netarts bay, Oregon	163	Mendocino, California	568	San Buenaventura, California	1,117
Cape Lookout, Oregon	168	Navarro, California	579	Hueneme, California	1,122
Yaquina, Oregon.....	217	Point Arena, California.....	595	Santa Monica, California.....	1,166
Oysterville, Oregon	217	Tomales, California	660	Wilmington, California	1,187
Florence, Oregon.....	255	San Francisco, California.....	709	San Pedro, California	1,184
Empire city, Oregon	298	Mare island, California.....	731	San Juan Capistrano, California.....	1,220
Coos city, Oregon	309	Oakland, California	714	Delmar, California	1,257
Cape Blanco, Oregon	325	Santa Cruz, California	763	San Diego, California	1,284
Port Orford, Oregon	336				

STATISTICS OF TRANSPORTATION.

EQUIPMENT, OCCUPATION, AND CONSTRUCTION.

TABLE 1.—EQUIPMENT OF FLEETS—NUMBER, TONNAGE, AND VALUATION OF ALL STEAMERS, SAILING VESSELS, AND UNRIGGED CRAFT OF OVER FIVE TONS BURDEN REGISTERED OR OWNED IN THE CUSTOMS DISTRICTS OF THE PACIFIC COAST CREDITED TO THE RESPECTIVE DISTRICTS, WITH TOTALS FOR EACH STATE.

CUSTOMS DISTRICTS.	TOTAL OF ALL CRAFT.			STEAMERS.			SAILING VESSELS.			UNRIGGED CRAFT.		
	Num- ber.	Gross tonnage.	Valuation.	Num- ber.	Gross tonnage.	Valuation.	Num- ber.	Gross tonnage.	Valuation.	Num- ber.	Gross tonnage.	Valua- tion.
Total	1,842	441,939	\$23,067,370	531	170,503	\$15,526,455	822	208,080	\$6,715,570	489	63,356	\$825,345
California.....	1,177	304,886	16,148,080	251	106,667	9,792,905	697	162,946	5,753,975	229	35,273	601,200
San Diego.....	57	3,227	112,450	8	800	62,500	21	461	36,975	28	1,966	12,975
Wilmington.....	56	5,562	287,900	10	933	188,500	13	694	37,400	33	3,935	62,000
San Francisco.....	1,018	289,750	15,400,205	223	104,149	9,459,405	649	158,519	5,434,100	146	27,082	506,700
Humboldt.....	46	6,347	347,525	10	785	82,500	14	3,272	245,500	22	2,290	19,525
Oregon.....	366	68,963	4,733,365	165	50,628	4,492,200	43	2,776	97,065	158	15,559	144,100
Southern Oregon.....	109	3,887	99,290	15	771	70,600	1	90	8,000	93	3,026	20,690
Yaquina.....	16	2,321	287,600	13	2,281	287,400				3	40	200
Oregon.....	105	5,353	347,990	41	3,172	284,100	36	690	50,080	28	1,491	13,810
Willamette.....	136	57,402	3,998,485	96	44,404	3,850,100	6	1,996	38,985	34	11,002	109,400
Washington—Puget sound.....	299	68,090	2,185,925	115	13,208	1,241,350	82	42,358	864,530	102	12,524	80,045

EQUIPMENT, OCCUPATION, AND CONSTRUCTION—Continued.

TABLE 2.—OCCUPATION AND VALUATION BY CLASSES—NUMBER, TONNAGE, AND VALUATION OF ALL STEAMERS, SAILING VESSELS, AND UNRIGGED CRAFT OF OVER FIVE TONS BURDEN, DIVIDED INTO CLASSES INDICATIVE OF OCCUPATION.

CUSTOMS DISTRICTS.	TOTAL EQUIPMENT.				STEAMERS.									
					Passenger and freight.				Ferry.				Fish.	
	Num- ber.	Gross tonnage.	Valuation.	Value per gross ton.	Num- ber.	Gross tonnage.	Valuation.	Value per gross ton.	Num- ber.	Gross tonnage.	Valua- tion.	Value per gross ton.	Num- ber.	Gross- ton- nage.
Total	1,842	441,939	\$23,067,370	\$52.20	354	129,491	\$12,660,755	\$97.77	38	24,630	\$979,300	\$39.76	24	4,343
California	1,177	304,886	16,148,080	52.96	147	73,833	7,657,705	103.72	20	22,551	816,000	36.18	14	3,960
San Diego	57	3,227	112,450	34.85					3	488	31,500	64.55		
Wilmington	56	5,562	287,900	51.76	5	756	149,500	197.75						
San Francisco	1,018	289,750	15,400,205	53.15	136	72,626	7,479,705	102.99	17	22,063	784,500	35.56	14	3,960
Humboldt	46	6,347	347,525	54.75	6	451	28,500	63.19						
Oregon	366	68,963	4,733,365	68.64	114	45,016	4,027,200	89.46	16	1,783	118,300	66.35	9	370
Southern Oregon	109	3,887	99,290	25.54	12	651	48,300	74.19	1	20	1,200	60.00		
Yaquina	16	2,321	287,600	123.91	7	1,077	125,000	116.06	1	16	900	56.25	1	106
Oregon	105	5,353	347,990	65.01	33	2,897	247,600	85.47					5	185
Willamette	136	57,402	3,998,485	69.66	62	40,391	3,606,300	89.28	14	1,747	116,290	66.51	3	79
Washington—Puget sound ..	299	68,090	2,185,925	32.10	93	10,642	975,850	91.70	2	296	45,000	152.03	1	13

STEAMERS—continued.

CUSTOMS DISTRICTS.	Fish—Continued.				Harbor tugs.				Yachts.				No traffic report.			
	Valua- tion.	Value per gross ton.	Num- ber.	Gross tonnage.	Valuation.	Value per gross ton.	Num- ber.	Gross tonnage.	Valua- tion.	Value per gross ton.	Num- ber.	Gross tonnage.	Valua- tion.	Value per gross ton.	Num- ber.	Gross- ton- nage.
Total	\$411,500	\$94.75	70	6,109	\$1,120,800	\$183.47	3	63	\$6,500	\$103.17	42	5,867	\$347,600	\$59.25		
California	341,000	86.11	52	4,279	833,500	194.79	1	18	2,500	138.89	17	2,026	142,200	70.19		
San Diego			4	294	28,500	96.94	1	18	2,500	138.89						
Wilmington			1	89	22,000	247.19					4	88	17,000	193.18		
San Francisco	341,000	86.11	44	3,626	732,000	201.88					12	1,874	122,200	65.21		
Humboldt			3	270	51,000	188.89					1	64	3,000	46.88		
Oregon	69,000	186.49	9	484	108,300	223.76					17	2,975	169,400	56.94		
Southern Oregon			2	100	21,100	211.00										
Yaquina	25,000	235.85	2	126	44,500	353.17					2	956	92,000	96.23		
Oregon	24,000	129.73	1	14	2,000	142.86					2	76	10,500	138.16		
Willamette	20,000	253.16	4	244	40,700	166.80					13	1,943	66,900	34.43		
Washington—Puget sound ..	1,500	115.38	9	1,346	179,000	132.99	2	45	4,000	88.89	8	866	36,000	41.57		

STATISTICS OF TRANSPORTATION.

EQUIPMENT, OCCUPATION, AND CONSTRUCTION—Continued.

TABLE 2.—OCCUPATION AND VALUATION BY CLASSES—Continued.

CUSTOMS DISTRICTS.	SAILING VESSELS.											
	Freight.				Fish.				Pilot boats.			
	Num- ber.	Gross tonnage.	Valuation.	Value per gross ton.	Num- ber.	Gross tonnage.	Valuation.	Value per gross ton.	Num- ber.	Gross tonnage.	Valuation.	Value per gross ton.
Total	647	194,478	\$6,112,340	\$31.43	60	6,372	\$260,955	\$44.09	8	418	\$49,700	\$118.90
California	577	150,825	5,236,900	34.72	42	5,897	242,525	41.13	6	258	30,000	116.28
San Diego	7	222	20,350	91.67	2	31	2,625	84.68	1	20	3,000	150.00
Wilmington	8	588	27,400	46.60					1	8	2,500	312.50
San Francisco	549	146,924	4,948,150	33.68	40	5,866	239,900	40.90	4	230	24,500	106.52
Humboldt	13	3,091	241,000	77.97								
Oregon	18	2,022	53,385	26.40	10	137	12,730	92.92	2	141	19,000	134.75
Southern Oregon	1	90	8,000	88.89								
Yaquina												
Oregon	14	220	10,350	47.05	10	137	12,730	92.92	2	141	19,000	134.75
Willamette	3	1,712	35,035	20.46								
Washington—Puget sound ..	52	41,631	822,055	19.75	8	338	25,700	76.04	1	19	700	36.84

CUSTOMS DISTRICTS.	SAILING VESSELS—continued.								UNRIGGED CRAFT.			
	Yachts.				No traffic report.				Freight.			
	Num- ber.	Gross tonnage.	Valuation.	Value per gross ton.	Num- ber.	Gross tonnage.	Valuation.	Value per gross ton.	Num- ber.	Gross tonnage.	Valuation.	Value per gross ton.
Total	25	612	\$69,300	\$113.24	81	6,200	\$203,275	\$32.79	489	63,356	\$825,345	\$13.03
California	24	604	68,800	113.91	48	5,362	175,750	32.78	229	35,273	601,200	17.04
San Diego	7	101	8,500	84.16	4	87	2,500	28.74	28	1,966	12,975	6.60
Wilmington	4	98	7,500	76.53					33	3,935	62,000	15.76
San Francisco	13	405	52,800	130.37	43	5,094	168,750	33.13	146	27,082	506,700	18.71
Humboldt					1	181	4,500	24.86	22	2,290	19,525	8.53
Oregon					13	476	11,950	25.11	158	15,559	144,100	9.26
Southern Oregon									93	3,026	20,690	6.84
Yaquina									3	40	200	5.00
Oregon					10	192	8,000	41.67	22	1,491	13,810	9.26
Willamette					3	284	3,950	13.91	34	11,002	109,400	9.94
Washington—Puget sound ..	1	8	500	62.50	20	362	15,575	43.02	102	12,524	80,045	6.39

EQUIPMENT, OCCUPATION, AND CONSTRUCTION—Continued.

TABLE 3.—OWNERSHIP BY CLASSES—NUMBER, TONNAGE, AND VALUATION OF ALL STEAMERS AND SAILING VESSELS ALLOTTED RESPECTIVELY TO INDIVIDUAL, JOINT STOCK, AND CORPORATE OWNERSHIP, AND GROUPED FOR EACH CLASS OF OCCUPATION.

ALL STEAMERS AND SAILING VESSELS.

CUSTOMS DISTRICTS.	Total number.	Total tonnage.	NUMBER AND TONNAGE BY OWNERSHIP.						VALUATION BY OWNERSHIP.		
			Individual.		Joint stock.		Corporate.		Individual.	Joint stock.	Corporate.
			Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.			
Total steam and sail	1,353	378,583	994	200,705	27	4,002	332	173,876	\$9,001,115	\$343,500	\$12,897,416
Total steam	531	170,503	252	34,114	25	3,368	254	133,021	3,147,650	324,500	12,054,305
Total sail	822	208,080	742	166,591	2	634	78	40,855	5,853,465	19,000	843,105

STEAMERS.

PASSENGER AND FREIGHT.

Total	354	129,491	179	27,140	18	2,825	157	99,526	2,417,850	246,500	9,996,405
California	147	73,833	57	13,552	12	2,510	78	57,771	1,302,500	193,000	6,162,205
Wilmington	5	756					5	756			149,500
San Francisco	136	72,626	53	13,288	12	2,510	71	56,828	1,285,000	193,000	6,001,705
Humboldt	6	451	4	264			2	187	17,500		11,000
Oregon	114	45,016	53	7,537	5	236	56	37,243	592,700	33,500	3,401,000
Southern Oregon	12	651	8	365	3	173	1	113	21,800	22,500	4,000
Yaquina	7	1,077	7	1,077					125,000		
Oregon	33	2,897	22	1,962	2	63	9	872	167,600	11,000	69,000
Willamette	62	40,391	16	4,133			46	36,258	278,300		3,328,000
Washington—Puget sound	93	10,642	69	6,051	1	70	23	4,512	522,650	20,000	433,200

FERRY.

Total	38	24,630	7	202	2	216	29	24,212	28,600	13,000	937,760
California	20	22,551					20	22,551			816,000
San Diego	3	488					3	488			31,500
San Francisco	17	22,063					17	22,063			784,500
Oregon	16	1,783	0	179	2	216	8	1,388	23,600	13,000	81,700
Southern Oregon	1	20	1	20					1,200		
Yaquina	1	16	1	16					900		
Willamette	14	1,747	4	143	2	216	8	1,388	21,500	13,000	81,700
Washington—Puget sound	2	290	1	23			1	273	5,000		40,000

FISH.

Total	24	4,343	5	626	2	149	17	3,568	45,000	24,000	342,500
California—San Francisco	14	3,960	1	516	1	91	12	3,353	20,000	18,000	303,000
Oregon	9	370	4	110	1	58	4	202	25,000	6,000	38,000
Yaquina	1	106					1	106			25,000
Oregon	5	185	1	31	1	58	3	96	5,000	6,000	13,000
Willamette	3	79	3	79					20,000		
Washington—Puget sound	1	13					1	13			1,500

STATISTICS OF TRANSPORTATION.

EQUIPMENT, OCCUPATION, AND CONSTRUCTION—Continued.

TABLE 3.—OWNERSHIP BY CLASSES—Continued.

STEAMERS—Continued.

HARBOR TUGS.

CUSTOMS DISTRICTS.	Total number.	Total tonnage.	NUMBER AND TONNAGE BY OWNERSHIP.						VALUATION BY OWNERSHIP.		
			Individual.		Joint stock.		Corporate.		Individual.	Joint stock.	Corporate.
			Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.			
Total	70	6,109	33	2,189	3	178	34	3,742	\$440,800	\$41,000	\$639,000
California	52	4,279	24	1,739	2	55	26	2,485	396,000	16,000	421,500
San Diego	4	294	2	29			2	265	8,500		20,000
Wilmington	1	89					1	89			22,000
San Francisco	44	3,626	19	1,440	2	55	23	2,131	336,500	16,000	379,500
Humboldt	3	270	3	270					51,000		
Oregon	9	484	6	174			3	310	30,300		78,000
Southern Oregon	2	100	2	100					21,100		
Yaquina	2	126	1	34			1	92	4,500		40,000
Oregon	1	14	1	14					2,000		
Willamette	4	244	2	26			2	218	2,700		38,000
Washington—Puget sound	9	1,346	3	276	1	123	5	947	14,500	25,000	139,500

YACHTS.

Total	3	63	2	45			1	18	4,000		2,500
California—San Diego	1	18					1	18			2,500
Washington—Puget sound	2	45	2	45					4,000		

NO TRAFFIC REPORT.

Total	42	5,867	26	3,912			16	1,955	211,400		136,200
California	17	2,026	8	1,401			9	625	43,500		98,700
Wilmington	4	88	2	48			2	40	7,500		9,500
San Francisco	12	1,874	5	1,289			7	585	33,000		89,200
Humboldt	1	64	1	64					3,000		
Oregon	17	2,975	13	2,058			4	917	138,400		31,000
Yaquina	2	956	1	883			1	73	80,000		12,000
Oregon	2	76	2	76					10,500		
Willamette	13	1,943	10	1,099			3	844	47,900		19,000
Washington—Puget sound	8	866	5	453			3	413	29,500		6,500

SAILING VESSELS.

FREIGHT.

Total	647	194,478	587	157,048	1	594	59	36,836	5,369,835	15,000	727,505
California	577	150,825	544	141,871	1	594	32	8,360	4,951,900	15,000	270,000
San Diego	7	222	5	80			2	142	5,350		15,000
Wilmington	8	588	8	588					27,400		
San Francisco	549	146,924	518	138,112	1	594	30	8,218	4,678,150	15,000	255,000
Humboldt	13	3,091	13	3,091					241,000		
Oregon	18	2,022	18	2,022					53,385		
Southern Oregon	1	90	1	90					8,000		
Oregon	14	220	14	220					10,350		
Willamette	3	1,712	3	1,712					35,035		
Washington—Puget sound	52	41,631	25	13,155			27	28,476	364,550		457,505

EQUIPMENT, OCCUPATION, AND CONSTRUCTION—Continued.

TABLE 3.—OWNERSHIP BY CLASSES—Continued.

SAILING VESSELS—Continued.

FISH.

CUSTOMS DISTRICTS.	Total number.	Total tonnage.	NUMBER AND TONNAGE BY OWNERSHIP.						VALUATION BY OWNERSHIP.		
			Individual.		Joint stock.		Corporate.		Individual.	Joint stock.	Corporate.
			Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.			
Total	60	6,372	46	4,084	1	40	13	2,248	\$199,555	\$4,000	\$77,400
California	42	5,897	30	3,663			12	2,234	166,925		75,600
San Diego	2	31	2	31					2,625		
San Francisco	40	5,866	28	3,632			12	2,234	164,300		75,600
Oregon—Oregon	10	137	10	137					12,730		
Washington—Puget sound	8	338	6	284	1	40	1	14	19,900	4,000	1,800

PILOT BOATS.

Total	0	418	8	354			1	64	39,700		10,000
California	6	258	6	258					30,000		
San Diego	1	20	1	20					3,000		
Wilmington	1	8	1	8					2,500		
San Francisco	4	230	4	230					24,500		
Oregon—Oregon	2	141	1	77			1	64	9,000		10,000
Washington—Puget sound	1	19	1	19					700		

YACHTS.

Total	25	612	25	612					69,300		
California	24	604	24	604					68,800		
San Diego	7	101	7	101					8,500		
Wilmington	4	88	4	98					7,500		
San Francisco	13	405	13	405					52,800		
Washington—Puget sound	1	8	1	8					500		

NO TRAFFIC REPORT.

Total	81	6,200	76	4,493			5	1,707	175,075		28,200
California	48	5,362	43	3,655			5	1,707	147,550		28,200
San Diego	4	87	4	87					2,500		
San Francisco	43	5,094	38	3,387			5	1,707	140,550		28,200
Humboldt	1	181	1	181					4,500		
Oregon	13	476	13	476					11,950		
Oregon	10	192	10	192					8,000		
Willamette	3	284	3	284					3,950		
Washington—Puget sound	20	362	20	362					15,575		

STATISTICS OF TRANSPORTATION.

EQUIPMENT, OCCUPATION, AND CONSTRUCTION—Continued.

TABLE 4.—OWNERSHIP BY LOCALITIES—NUMBER, TONNAGE, AND VALUATION OF ALL STEAMERS AND SAILING VESSELS ALLOTTED RESPECTIVELY TO INDIVIDUAL, JOINT STOCK, AND CORPORATE OWNERSHIP, AND GROUPED BY DISTRICTS.

ALL STEAMERS AND SAILING VESSELS.

CLASSES AND CUSTOMS DISTRICTS.	Total number.	Total tonnage.	NUMBER AND TONNAGE BY OWNERSHIP.						VALUATION BY OWNERSHIP.		
			Individual.		Joint stock.		Corporate.		Individual.	Joint stock.	Corporate.
			Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.			
Total steam and sail.....	1,353	378,583	994	200,705	27	4,002	332	173,876	\$9,001,115	\$343,500	\$12,897,410
Total steam.....	531	170,503	252	34,114	25	3,368	254	133,021	3,147,650	324,500	12,054,305
Total sail.....	822	208,080	742	166,591	2	634	78	40,855	5,853,465	19,000	843,105

STEAMERS.

Total for California.....	251	106,667	90	17,208	15	2,656	146	86,803	1,762,000	227,000	7,803,905
San Diego, California.....	8	800	2	29			6	771	8,500		54,000
Ferry.....	3	488					3	488			31,500
Harbor tugs.....	4	294	2	29			2	265	8,500		20,000
Yachts.....	1	18					1	18			2,500
Wilmington, California.....	10	933	2	48			8	885	7,500		181,000
Passenger and freight.....	5	756					5	756			149,500
Harbor tugs.....	1	89					1	89			22,000
No traffic report.....	4	88	2	48			2	40	7,500		9,500
San Francisco, California.....	223	104,149	78	16,533	15	2,656	130	84,960	1,674,500	227,000	7,557,905
Passenger and freight.....	136	72,626	53	13,288	12	2,510	71	56,828	1,285,000	193,000	6,001,705
Ferry.....	17	22,063					17	22,063			784,500
Fish.....	14	3,960	1	516	1	91	12	3,353	20,000	18,000	303,000
Harbor tugs.....	44	3,626	19	1,440	2	55	23	2,131	336,500	16,000	379,500
No traffic report.....	12	1,874	5	1,289			7	585	33,000		89,200
Humboldt, California.....	10	785	8	598			2	187	71,500		11,000
Passenger and freight.....	6	451	4	264			2	187	17,500		11,000
Harbor tugs.....	3	270	3	270					51,000		
No traffic report.....	1	64	1	64					3,000		
Total for Oregon.....	165	50,628	82	10,058	8	510	75	40,060	810,000	52,500	3,629,700
Southern Oregon, Oregon.....	15	771	11	485	3	173	1	113	44,100	22,500	4,000
Passenger and freight.....	12	651	8	365	3	173	1	113	21,800	22,500	4,000
Ferry.....	1	20	1	20					1,200		
Harbor tugs.....	2	100	2	100					21,100		
Yaquina, Oregon.....	13	2,281	10	2,010			3	271	210,400		77,000
Passenger and freight.....	7	1,077	7	1,077					125,000		
Ferry.....	1	16	1	16					000		
Fish.....	1	106					1	106			25,000
Harbor tugs.....	2	126	1	34			1	92	4,500		40,000
No traffic report.....	2	956	1	883			1	73	80,000		12,000
Oregon, Oregon.....	41	3,172	26	2,083	3	121	12	968	185,100	17,000	82,000
Passenger and freight.....	33	2,897	22	1,962	2	63	9	872	167,600	11,000	69,000
Fish.....	5	185	1	31	1	58	3	96	5,000	6,000	13,000
Harbor tugs.....	1	14	1	14					2,000		
No traffic report.....	2	76	2	76					10,500		
Willamette, Oregon.....	96	44,404	35	5,480	2	216	59	38,708	370,400	13,000	3,466,700
Passenger and freight.....	62	40,391	16	4,133			46	36,258	278,300		3,328,000
Ferry.....	14	1,747	4	143	2	216	8	1,388	21,500	13,000	81,700
Fish.....	3	79	3	79					20,000		
Harbor tugs.....	4	244	2	26			2	218	2,700		38,000
No traffic report.....	13	1,943	10	1,099			3	844	47,900		19,000

EQUIPMENT, OCCUPATION, AND CONSTRUCTION—Continued.

TABLE 4.—OWNERSHIP BY LOCALITIES—Continued.

STEAMERS—Continued.

CLASSES AND CUSTOMS DISTRICTS.	Total number.	Total tonnage.	NUMBER AND TONNAGE BY OWNERSHIP.						VALUATION BY OWNERSHIP.		
			Individual.		Joint stock.		Corporate.		Individual.	Joint stock.	Corporate.
			Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.			
Puget sound, Washington	115	13,208	80	6,848	2	202	33	6,158	\$575,650	\$45,000	\$620,700
Passenger and freight.....	93	10,642	69	6,051	1	79	23	4,512	522,650	20,000	433,200
Ferry.....	2	296	1	23			1	273	5,000		40,000
Fish.....	1	13					1	13			1,500
Harbor tugs.....	9	1,346	3	276	1	123	5	947	14,500	25,000	139,500
Yachts.....	2	45	2	45					4,000		
No traffic report.....	8	866	5	453			3	413	29,500		6,500

SAILING VESSELS.

Total for California.....	697	162,946	647	150,051	1	594	49	12,301	5,365,175	15,000	373,800
San Diego, California.....	21	461	19	319			2	142	21,975		15,000
Freight.....	7	222	5	80				142	5,350		15,000
Fish.....	2	31	2	31					2,625		
Pilot boats.....	1	20	1	20					3,000		
Yachts.....	7	101	7	101					8,500		
No traffic report.....	4	87	4	87					2,500		
Wilmington, California.....	13	694	13	694					37,400		
Freight.....	8	588	8	588					27,400		
Pilot boats.....	1	8	1	8					2,500		
Yachts.....	4	98	4	98					7,500		
San Francisco, California.....	649	158,519	601	145,766	1	594	47	12,159	5,060,300	15,000	358,800
Freight.....	549	146,924	518	138,112	1	594	30	8,218	4,678,150	15,000	255,000
Fish.....	40	5,866	28	3,632			12	2,234	164,300		75,600
Pilot boats.....	4	230	4	230					24,500		
Yachts.....	13	405	13	405					52,800		
No traffic report.....	43	5,094	38	3,387			5	1,707	140,550		28,200
Humboldt, California.....	14	3,272	14	3,272					245,500		
Freight.....	13	3,091	13	3,091					241,000		
No traffic report.....	1	181	1	181					4,500		
Total for Oregon.....	43	2,776	42	2,712			1	64	87,065		10,000
Southern Oregon, Oregon:											
Freight.....	1	90	1	90					8,000		
Oregon, Oregon.....	36	890	35	825			1	64	40,080		10,000
Freight.....	14	220	14	220					10,350		
Fish.....	10	137	10	137					12,730		
Pilot boats.....	2	141	1	77			1	64	9,000		10,000
No traffic report.....	10	192	10	192					8,000		
Willamette, Oregon.....	6	1,996	6	1,996					38,985		
Freight.....	3	1,712	3	1,712					35,035		
No traffic report.....	3	284	3	284					3,950		
Puget sound, Washington.....	83	42,358	53	13,828	1	40	28	28,490	401,225	4,000	459,305
Freight.....	52	41,631	25	13,155			27	28,476	364,550		457,505
Fish.....	8	338	6	284	1	40	1	14	19,900	4,000	1,800
Pilot boats.....	1	19	1	19					700		
Yachts.....	1		1						500		
No traffic report.....	20	362	20	362					15,575		

STATISTICS OF TRANSPORTATION.

EQUIPMENT, OCCUPATION, AND CONSTRUCTION—Continued.

TABLE 5.—CONSTRUCTION BY CLASSES—NUMBER, TONNAGE, AND VALUATION OF ALL STEAMERS AND SAILING VESSELS ALLOTTED RESPECTIVELY TO THEIR MATERIALS OF CONSTRUCTION, AND GROUPED FOR EACH CLASS OF OCCUPATION.

ALL STEAMERS AND SAILING VESSELS.

CUSTOMS DISTRICTS.	Total number.	Total tonnage.	NUMBER AND TONNAGE BY MATERIALS OF CONSTRUCTION.						VALUATION BY MATERIALS OF CONSTRUCTION.			
			Wood.		Composite.		Iron and steel.		Total valuation.	Wood.	Compos-ite.	Iron and steel.
			Num-ber.	Tonnage.	Num-ber.	Tonnage.	Num-ber.	Tonnage.				
Total steam and sail.....	1,353	378,583	1,326	323,076	2	1,298	25	49,209	\$22,242,025	\$15,373,960	\$110,000	\$6,758,065
Total steam.....	531	170,503	506	121,202	1	1,089	24	48,212	15,526,455	8,708,390	100,000	6,712,065
Total sail.....	822	208,080	820	206,874	1	209	1	997	6,715,570	6,665,570	10,000	40,000

STEAMERS.

PASSENGER AND FREIGHT.

Total	354	129,491	336	82,262	1	1,089	17	46,140	12,660,755	6,162,690	100,000	6,398,065
California.....	147	73,833	133	45,982	1	1,089	13	26,762	7,657,705	3,759,640	100,000	3,798,065
Wilmington	5	756	5	756					149,500	149,500		
San Francisco.....	136	72,626	122	44,775	1	1,089	13	26,762	7,479,705	3,581,640	100,000	3,798,065
Humboldt	6	451	6	451					28,500	28,500		
Oregon	114	45,016	111	25,799			3	19,217	4,027,200	1,467,200		2,560,000
Southern Oregon.....	12	651	12	651					48,300	48,300		
Yaquina	7	1,077	6	160			1	917	125,000	30,000		95,000
Oregon	33	2,897	33	2,897					247,600	247,600		
Willamette	62	40,391	60	22,091			2	18,300	3,606,300	1,141,300		2,465,000
Washington—Puget sound.....	93	10,642	92	10,481			1	161	975,850	935,850		40,000

FERRY.

Total	38	24,630	37	24,215			1	415	979,300	939,300		40,000
California.....	20	22,551	20	22,551					816,000	816,000		
San Diego.....	3	488	3	488					31,500	31,500		
San Francisco	17	22,063	17	22,063					784,500	784,500		
Oregon	16	1,783	15	1,368			1	415	118,300	78,300		40,000
Southern Oregon.....	1	20	1	20					1,200	1,200		
Yaquina	1	16	1	16					900	900		
Willamette	14	1,747	13	1,332			1	415	116,200	76,200		40,000
Washington—Puget sound.....	2	296	2	296					45,000	45,000		

FISH.

Total	24	4,343	24	4,343					411,500	411,500		
California—San Francisco	14	3,960	14	3,960					341,000	341,000		
Oregon	9	370	9	370					69,000	69,000		
Yaquina.....	1	106	1	106					25,000	25,000		
Oregon	5	185	5	185					24,000	24,000		
Willamette	3	79	3	79					20,000	20,000		
Washington—Puget sound.....	1	13	1	13					1,500	1,500		

EQUIPMENT, OCCUPATION, AND CONSTRUCTION—Continued.

TABLE 5.—CONSTRUCTION BY CLASSES—Continued.

STEAMERS—Continued.

HARBOR TUGS.

CUSTOMS DISTRICTS.	Total number	Total tonnage.	NUMBER AND TONNAGE BY MATERIALS OF CONSTRUCTION.						VALUATION BY MATERIALS OF CONSTRUCTION.			
			Wood.		Composite.		Iron and steel.		Total valuation.	Wood.	Compos-ite.	Iron and steel.
			Num-ber.	Tonnage.	Num-ber.	Tonnage.	Num-ber.	Tonnage.				
Total	70	6,109	66	5,540			4	509	\$1,120,800	\$985,800		\$135,000
California	52	4,279	50	3,928			2	351	833,500	736,500		97,000
San Diego	4	294	4	294					28,500	28,500		
Wilmington	1	89	1	89					22,000	22,000		
San Francisco	44	3,626	42	3,275			2	351	732,000	635,000		97,000
Humboldt	3	270	3	270					51,000	51,000		
Oregon	9	484	7	266			2	218	108,300	70,300		38,000
Southern Oregon	2	100	2	100					21,100	21,100		
Yaquina	2	126	2	126					44,500	44,500		
Oregon	1	14	1	14					2,000	2,000		
Willamette	4	244	2	26			2	218	40,700	2,700		38,000
Washington—Puget sound	9	1,346	9	1,346					179,000	179,000		

YACHTS.

Total	3	63	3	63					6,500	6,500		
California—San Diego	1	18	1	18					2,500	2,500		
Washington—Puget sound	2	45	2	45					4,000	4,000		

NO-TRAFFIC REPORT.

Total	42	5,867	40	4,779			2	1,088	347,600	202,600		145,000
California	17	2,026	16	1,821			1	205	142,200	77,200		65,000
Wilmington	4	88	4	88					17,000	17,000		
San Francisco	12	1,874	11	1,669			1	205	122,200	57,200		65,000
Humboldt	1	64	1	64					3,000	3,000		
Oregon	17	2,975	16	2,092			1	883	169,400	89,400		80,000
Yaquina	2	956	1	73			1	883	92,000	12,000		80,000
Oregon	2	76	2	76					10,500	10,500		
Willamette	13	1,943	13	1,943					66,900	66,900		
Washington—Puget sound	8	866	8	866					36,000	36,000		

SAILING VESSELS.

FREIGHT.

Total	647	194,478	645	193,272	1	209	1	997	6,112,340	6,062,340	10,000	40,000
California	577	150,825	575	149,619	1	209	1	997	5,236,900	5,186,900	10,000	40,000
San Diego	7	222	7	222					20,350	20,350		
Wilmington	8	588	8	588					27,400	27,400		
San Francisco	549	146,924	547	145,718	1	209	1	997	4,948,150	4,898,150	10,000	40,000
Humboldt	13	3,091	13	3,091					241,000	241,000		
Oregon	18	2,022	18	2,022					53,385	53,385		
Southern Oregon	1	90	1	90					8,000	8,000		
Oregon	14	220	14	220					10,350	10,350		
Willamette	3	1,712	3	1,712					35,035	35,035		
Washington—Puget sound	52	41,631	52	41,631					822,055	822,055		

STATISTICS OF TRANSPORTATION.

EQUIPMENT, OCCUPATION, AND CONSTRUCTION—Continued.

TABLE 5.—CONSTRUCTION BY CLASSES—Continued.

SAILING VESSELS—Continued.

FISH.

CUSTOMS DISTRICTS.	Total number.	Total tonnage.	NUMBER AND TONNAGE BY MATERIALS OF CONSTRUCTION.						VALUATION BY MATERIALS OF CONSTRUCTION.			
			Wood.		Composite.		Iron and steel.		Total valuation.	Wood.	Compos-ite.	Iron and steel.
			Num-ber.	Tonnage.	Num-ber.	Tonnage.	Num-ber.	Tonnage.				
Total	60	6,372	60	6,372					\$280,955	\$280,955		
California.....	42	5,897	42	5,897					242,525	242,525		
San Diego.....	2	31	2	31					2,625	2,625		
San Francisco.....	40	5,866	40	5,866					239,900	239,900		
Oregon—Oregon	10	137	10	137					12,730	12,730		
Washington—Puget sound	8	338	8	338					25,700	25,700		

PILOT BOATS.

Total	9	418	9	418					49,700	49,700		
California.....	6	258	6	258					30,000	30,000		
San Diego.....	1	20	1	20					3,000	3,000		
Wilmington	1	8	1	8					2,500	2,500		
San Francisco.....	4	230	4	230					24,500	24,500		
Oregon—Oregon	2	141	2	141					19,000	19,000		
Washington—Puget sound	1	19	1	19					700	700		

YACHTS.

Total	25	612	25	612					69,300	69,300		
California	24	604	24	604					68,800	68,800		
San Diego.....	7	101	7	101					8,500	8,500		
Wilmington	4	98	4	98					7,500	7,500		
San Francisco	13	405	13	405					52,800	52,800		
Washington—Puget sound	1	8	1	8					500	500		

NO TRAFFIC REPORT.

Total	81	6,200	81	6,200					203,275	203,275		
California.....	48	5,362	48	5,362					175,750	175,750		
San Diego	4	87	4	87					2,500	2,500		
San Francisco	43	5,094	43	5,094					168,750	168,750		
Humboldt	1	181	1	181					4,500	4,500		
Orgeon	13	476	13	476					11,950	11,950		
Oregon	10	192	10	192					8,000	8,000		
Willamette	3	284	3	284					3,950	3,950		
Washington—Puget sound	20	362	20	362					15,575	15,575		

TRANSPORTATION ON THE PACIFIC COAST.

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EQUIPMENT, OCCUPATION, AND CONSTRUCTION—Continued.

TABLE 6.—CONSTRUCTION BY LOCALITIES—NUMBER, TONNAGE, AND VALUATION OF ALL STEAMERS AND SAILING VESSELS ALLOTTED RESPECTIVELY TO THEIR MATERIALS OF CONSTRUCTION, AND GROUPED BY DISTRICTS.

ALL STEAMERS AND SAILING VESSELS.

CLASSES AND CUSTOMS DISTRICTS.	Total number.	Total tonnage.	NUMBER AND TONNAGE BY MATERIALS OF CONSTRUCTION.						VALUATION BY MATERIALS OF CONSTRUCTION.			
			Wood.		Composite.		Iron and steel.		Total valuation.	Wood.	Compos-ite.	Iron and steel.
			Num-ber.	Tonnage.	Num-ber.	Tonnage.	Num-ber.	Tonnage.				
Total steam and sail	1,353	378,583	1,326	328,076	2	1,298	25	49,209	\$22,242,025	\$15,373,960	\$110,000	\$6,758,065
Total steam.....	531	170,503	506	121,202	1	1,089	24	48,212	15,526,455	8,708,390	100,000	6,718,065
Total sail.....	822	208,080	820	206,874	1	209	1	997	6,715,570	6,665,570	10,000	40,000

STEAMERS.

Total for California.....	251	106,667	234	78,260	1	1,089	16	27,318	9,792,905	5,732,840	100,000	3,960,065
San Diego, California	8	800	8	800					62,500	62,500		
Ferry	3	488	3	488					31,500	31,500		
Harbor tugs	4	294	4	294					28,500	28,500		
Yachts	1	18	1	18					2,500	2,500		
Wilmington, California	10	933	10	933					188,500	188,500		
Passenger and freight	5	756	5	756					149,500	149,500		
Harbor tugs	1	80	1	89					22,000	22,000		
No traffic report	4	88	4	88					17,000	17,000		
San Francisco, California	223	104,149	206	75,742	1	1,089	16	27,318	9,459,405	5,399,340	100,000	3,960,065
Passenger and freight.....	136	72,626	122	44,775	1	1,089	13	26,762	7,479,705	3,581,640	100,000	3,798,065
Ferry	17	22,063	17	22,063					784,500	784,500		
Fish	14	3,960	14	3,960					341,000	341,000		
Harbor tugs	44	3,626	42	3,275			2	351	732,000	635,000		97,000
No traffic report	12	1,874	11	1,669			1	205	122,200	57,200		65,000
Humboldt, California	10	785	10	785					82,500	82,500		
Passenger and freight.....	0	451	0	451					28,500	28,500		
Harbor tugs	0	270	3	270					51,000	51,000		
No traffic report	1	64	1	64					3,000	3,000		
Total for Oregon.....	165	50,628	158	29,895			7	20,733	4,492,200	1,774,200		2,718,000
Southern Oregon.....	15	771	15	771					70,600	70,600		
Passenger and freight	12	651	12	651					48,300	48,300		
Ferry	1	20	1	20					1,200	1,200		
Harbor tugs	2	100	2	100					21,100	21,100		
Yaquina, Oregon.....	13	2,281	11	481			2	1,800	287,400	112,400		175,000
Passenger and freight	7	1,077	6	160			1	917	125,000	30,000		95,000
Ferry	1	16	1	16					900	900		
Fish	1	106	1	106					25,000	25,000		
Harbor tugs	2	126	2	126					44,500	44,500		
No traffic report	2	956	1	73			1	883	92,000	12,000		80,000
Oregon, Oregon	41	3,172	41	3,172					284,100	284,100		
Passenger and freight	33	2,897	33	2,897					247,600	247,600		
Fish	5	185	5	185					24,000	24,000		
Harbor tugs	1	14	1	14					2,000	2,000		
No traffic report	2	76	2	76					10,500	10,500		
Willamette, Oregon.....	96	44,404	91	25,471			5	18,933	3,850,100	1,307,100		2,543,000
Passenger and freight	62	40,391	60	22,091			2	18,300	3,606,300	1,141,300		2,465,000
Ferry	14	1,747	13	1,332			1	415	116,200	76,200		40,000
Fish	3	79	3	79					20,000	20,000		
Harbor tugs	4	244	2	20			2	218	40,700	2,700		38,000
No traffic report	13	1,943	13	1,943					66,900	66,900		

STATISTICS OF TRANSPORTATION.

EQUIPMENT, OCCUPATION, AND CONSTRUCTION—Continued.

TABLE 6.—CONSTRUCTION BY LOCALITIES—Continued.

STEAMERS—Continued.

CLASSES AND CUSTOMS DISTRICTS.	Total number.	Total tonnage.	NUMBER AND TONNAGE BY MATERIALS OF CONSTRUCTION.						VALUATION BY MATERIALS OF CONSTRUCTION.			
			Wood.		Composite.		Iron and steel.		Total valuation.	Wood.	Composite.	Iron and steel.
			Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.				
Puget sound, Washington	115	13,208	114	13,047			1	161	\$1,241,350	\$1,201,350		\$40,000
Passenger and freight	93	10,642	92	10,481			1	161	975,850	935,850		40,000
Ferry	2	296	2	296					45,000	45,000		
Fish	1	13	1	13					1,500	1,500		
Harbor tugs	9	1,346	9	1,346					179,000	179,000		
Yachts	2	45	2	45					4,000	4,000		
No traffic report	8	866	8	866					36,000	36,000		

SAILING VESSELS.

Total for California	697	162,946	695	161,740	1	209	1	997	5,753,975	5,703,975	\$10,000	40,000
San Diego, California	21	461	21	461					36,975	36,975		
Freight	7	222	7	222					20,350	20,350		
Fish	2	31	2	31					2,625	2,625		
Pilot boats	1	20	1	20					3,000	3,000		
Yachts	7	101	7	101					8,500	8,500		
No traffic report	4	87	4	87					2,500	2,500		
Wilmington, California	13	694	13	694					37,400	37,400		
Freight	8	588	8	588					27,400	27,400		
Pilot boats	1	8	1	8					2,500	2,500		
Yachts	4	98	4	98					7,500	7,500		
San Francisco, California	649	158,519	647	157,313	1	209	1	997	5,434,100	5,384,100	10,000	40,000
Freight	549	146,924	547	145,718	1	209	1	997	4,948,150	4,898,150	10,000	40,000
Fish	40	5,866	40	5,866					239,900	239,900		
Pilot boats	4	230	4	230					24,500	24,500		
Yachts	13	405	13	405					52,800	52,800		
No traffic report	43	5,094	43	5,094					168,750	168,750		
Humboldt, California	14	3,272	14	3,272					245,500	245,500		
Freight	13	3,091	13	3,091					241,000	241,000		
No traffic report	1	181	1	181					4,500	4,500		
Total for Oregon	43	2,776	43	2,776					97,065	97,065		
Southern district Oregon, Oregon:												
Freight	1	90	1	90					8,000	8,000		
Oregon, Oregon	36	690	36	690					50,080	50,080		
Freight	14	220	14	220					10,350	10,350		
Fish	10	137	10	137					12,730	12,730		
Pilot boats	2	141	2	141					19,000	19,000		
No traffic report	10	192	10	192					8,000	8,000		
Willamette, Oregon	6	1,996	6	1,996					38,985	38,985		
Freight	3	1,712	3	1,712					35,035	35,035		
No traffic report	3	284	3	284					3,950	3,950		
Puget sound, Washington	82	42,358	82	42,358					864,530	864,530		
Freight	52	41,631	52	41,631					822,055	822,055		
Fish	8	338	8	338					25,700	25,700		
Pilot boats	1	19	1	19					700	700		
Yachts	1	8	1	8					500	500		
No traffic report	20	362	20	362					15,575	15,575		

TRAFFIC OPERATIONS.

TABLE 7.—TRAFFIC IN GENERAL—TRIPS, MILES COVERED, PASSENGERS CARRIED, AND TONS OF FREIGHT MOVED BY ALL OPERATING CRAFT ON THE PACIFIC COAST IN 1889, EXCLUSIVE OF FISHING VESSELS NOT ENGAGED IN THE TRANSPORTATION OF FISHING PRODUCTS AS FREIGHT.

CUSTOMS DISTRICTS.	ALL CRAFT.				STEAMERS.				SAILING VESSELS.			UNRIGGED CRAFT.
	Trips.	Miles.	Freight. (Tons.)	Passengers.	Trips.	Miles.	Freight. (Tons.)	Passengers.	Trips.	Miles.	Freight. (Tons.)	Freight. (Tons.)
Total	672,670	12,273,515	8,818,363	4,019,329	633,684	6,766,160	5,741,940	4,019,329	38,986	4,507,355	2,761,826	314,597
California	236,216	8,239,608	5,148,940	825,177	199,917	3,323,122	2,684,383	825,177	36,299	4,916,486	2,401,593	62,964
San Diego	39,224	59,141	35,384	545,558	39,158	43,867	20	545,558	66	15,274	2,300	33,064
Wilmington	639	75,188	152,297	12,305	410	48,752	144,726	12,305	229	26,436	7,571	
San Francisco	192,011	7,979,209	4,799,553	242,354	156,843	3,207,096	2,420,955	242,354	35,168	4,772,113	2,351,598	27,000
Humboldt	4,342	126,070	161,706	24,960	3,506	23,407	118,682	24,960	836	102,663	40,124	2,900
Oregon	390,704	1,848,497	1,027,617	2,698,503	389,096	1,789,435	905,677	2,698,503	1,608	59,062	34,050	87,890
Southern Oregon...	6,727	107,142	178,275	33,860	6,706	98,222	119,499	33,860	21	8,920	2,916	55,860
Yaquina	4,000	68,158	31,583	15,722	4,000	68,158	31,583	15,722				(b)
Oregon	15,256	295,818	263,227	98,006	13,692	276,076	242,130	98,006	1,564	19,742	21,097	(b)
Willamette	364,721	1,377,379	554,532	2,550,915	364,698	1,346,979	512,463	2,550,915	23	30,400	10,037	32,030
Washington — Puget sound.	45,750	2,185,410	2,641,806	495,649	44,671	1,653,603	2,151,880	495,649	1,079	531,807	326,183	163,743

a Includes unriggered craft.

b Included in steamers.

STATISTICS OF TRANSPORTATION.

TRAFFIC OPERATIONS—Continued.

TABLE 8.—FREIGHT TRAFFIC BY COMMODITIES—PRINCIPAL COMMODITIES IN TONS OF THE TOTAL FREIGHT MOVED BY ALL OPERATING CRAFT ON THE PACIFIC COAST IN 1889.

ALL CRAFT.

CUSTOMS DISTRICTS.	Total of all commodities.	Agricultural products.	Coal.	Mines and quarries.	Lumber and other forest products.	Animal products including fish.	Manufactures and general merchandise.
Total for all craft.....	8,818,363	1,152,100	1,075,600	522,497	4,239,656	74,509	1,754,001

STEAMERS.

Total.....	5,741,940	851,041	407,635	305,551	3,023,547	30,706	1,123,460
California.....	2,684,383	754,423	355,726	192,333	616,045	12,275	753,581
San Diego.....	20					20	
Wilmington.....	144,726	148	67,235	50,000	8,620		18,723
San Francisco.....	2,420,955	753,683	268,491	98,032	537,381	12,176	731,192
Humboldt.....	118,682	592		44,301	70,044	79	3,666
Oregon.....	905,677	50,382	50,872	62,034	590,032	12,060	139,697
Southern Oregon.....	119,499	940	25	502	113,877	150	4,005
Yaquina.....	31,583	14,762			881	1,534	14,406
Oregon.....	242,130	5,476	160	5,380	201,407	2,972	26,735
Willamette.....	512,465	29,204	50,687	56,152	273,867	8,004	94,551
Washington—Puget sound.....	2,151,880	46,236	1,037	51,181	1,817,470	5,771	230,182

SAILING VESSELS.

Total.....	2,761,826	262,559	627,995	214,946	1,154,325	43,803	458,198
California.....	2,401,593	253,325	569,842	210,006	921,153	37,590	409,677
San Diego.....	2,300			120		102	2,078
Wilmington.....	7,571			10	7,445	80	36
San Francisco.....	2,351,598	253,225	569,842	208,333	877,331	37,408	405,459
Humboldt.....	40,124	100		1,543	36,377		2,104
Oregon.....	34,050	912		42	17,386	4,133	11,577
Southern Oregon.....	2,916				2,466		450
Oregon.....	21,097	597		42	14,481	3,433	2,544
Willamette.....	10,037	315			439	700	8,583
Washington—Puget sound.....	320,183	8,322	58,153	4,898	215,786	2,080	36,944

UNRIGGED CRAFT.

Total.....	314,597	38,500	39,970	2,000	61,784		172,343
San Diego, California.....	33,064		19,790		13,274		
San Francisco, California.....	27,000	18,500			8,500		
Humboldt, California.....	2,900				900		2,000
Southern Oregon, Oregon.....	55,860	20,000			25,860		10,000
Willamette, Oregon.....	32,030		17,030		8,000		7,000
Puget sound, Washington.....	163,743		3,150	2,000	5,250		153,343

TRANSPORTATION ON THE PACIFIC COAST.

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TRAFFIC OPERATIONS—Continued.

TABLE 9.—INTERDISTRICT MOVEMENT (FREIGHT)—AMOUNT OF EACH COMMODITY MOVED WITHIN OR BETWEEN WELL DEFINED TRAFFIC DISTRICTS BY ALL OPERATING CRAFT OF EACH CUSTOMS DISTRICT. (a)

ALL CRAFT.

INTERDISTRICT MOVEMENT.		COMMODITIES (IN TONS).						
From—	To—	Total.	Coal.	Lumber.	Mines and quarries.	Agricultural.	Animal products including fish.	All other products.
Total		8,818,363	1,075,600	4,230,636	522,497	1,152,100	74,509	1,754,001

SAN DIEGO, CALIFORNIA (STEAMERS AND UNRIGGED CRAFT).

1 Southern California coast.....	1 Southern California coast.....	33,084	19,790	13,274			20	
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SAN DIEGO, CALIFORNIA (SAILING VESSELS).

Total		2,300			120		102	2,078
2 San Francisco bay and rivers.....	7 Foreign.....	80			80			
1 Southern California coast.....	1 Southern California coast.....	1,823					90	1,733
Do.....	7 Foreign.....	225						225
7 Foreign.....	1 Southern California coast.....	52			40		12	
Do.....	7 Foreign.....	120						120

SAN DIEGO, CALIFORNIA (ALL CRAFT).

Total		35,384	19,790	13,274	120		122	2,078
2 San Francisco bay and rivers.....	7 Foreign.....	80			80			
1 Southern California coast.....	1 Southern California coast.....	34,907	19,790	13,274			110	1,733
Do.....	7 Foreign.....	225						225
7 Foreign.....	1 Southern California coast.....	52			40		12	
Do.....	7 Foreign.....	120						120

WILMINGTON, CALIFORNIA (STEAMERS AND UNRIGGED CRAFT).

Total		144,726	67,235	8,620	50,000	148		18,723
4 Oregon coast.....	1 Southern California coast.....	8,768		8,620		148		
1 Southern California coast.....	4 Oregon coast.....	27						27
Do.....	1 Southern California coast.....	135,931	67,235		50,000			18,696

WILMINGTON, CALIFORNIA (SAILING VESSELS).

Total		7,571		7,445	10		80	36
6 Puget sound and Washington.....	1 Southern California coast.....	1,400		1,400				
4 Oregon coast.....	do.....	1,450		1,450				
3 Northern California coast.....	do.....	4,500		4,500				
1 Southern California coast.....	do.....	221		95	10		80	36

WILMINGTON, CALIFORNIA (ALL CRAFT).

Total		152,297	67,235	16,065	50,010	148	80	18,759
6 Puget sound and Washington.....	1 Southern California coast.....	1,400		1,400				
4 Oregon coast.....	do.....	10,218		10,070		148		
3 Northern California coast.....	do.....	4,500		4,500				
1 Southern California coast.....	do.....	136,152	67,235	95	50,010		80	18,732
Do.....	4 Oregon coast.....	27						27

a See page 7.

STATISTICS OF TRANSPORTATION.

TRAFFIC OPERATIONS—Continued.

TABLE 9.—INTERDISTRICT MOVEMENT (FREIGHT)—Continued.

SAN FRANCISCO, CALIFORNIA (STEAMERS AND UNRIGGED CRAFT).

INTERDISTRICT MOVEMENT.			COMMODITIES (IN TONS).						
From	To—	Total.	Coal.	Lumber.	Mines and quarries.	Agricultural.	Animal products including fish.	All other products.	
Total		2,447,955	288,491	545,881	98,032	772,183	12,176	731,192	
6 Puget sound and Washington	2 San Francisco bay and rivers	92,125	67,853	24,272					
Do	1 Southern California coast	1,730		1,212			518		
4 Oregon coast	2 San Francisco bay and rivers	81,208	50,000	28,447		2,761			
Do	1 Southern California coast	1,208		988		220			
3 Northern California coast	3 Northern California coast	47,074		1,024	45,000		1,050		
Do	2 San Francisco bay and rivers	264,047		256,283		6,418	1,346		
Do	1 Southern California coast	48,803		48,294				509	
Do	7 Foreign	941		941					
2 San Francisco bay and rivers	6 Puget sound and Washington	13,969						13,969	
Do	4 Oregon coast	11,503						11,503	
Do	3 Northern California coast	32,260						32,260	
Do	2 San Francisco bay and rivers	1,222,223	56,981	143,933	22,024	641,023	6,150	352,112	
Do	1 Southern California coast	319,491	43,700	3,675				272,116	
Do	7 Foreign	19,014						19,014	
Do	9 Alaska and Bering sea	18,897	177					18,720	
1 Southern California coast	2 San Francisco bay and rivers	161,275		36,416	15,318	109,041	500		
Do	1 Southern California coast	12,000				12,000			
Do	7 Foreign	3,370	270	200		682		2,218	
7 Foreign	6 Puget sound and Washington	15,600			15,600				
Do	5 Columbia and Willamette rivers	4,245	4,245						
Do	2 San Francisco bay and rivers	73,181	64,236	188				8,757	
Do	1 Southern California coast	35				25	10		
Do	9 Alaska and Bering sea	1,029	1,029						
9 Alaska and Bering sea	2 San Francisco bay and rivers	2,602					2,602		
Do	9 Alaska and Bering sea	125		8	90	13		14	

SAN FRANCISCO, CALIFORNIA (SAILING VESSELS).

Total		2,351,598	569,842	877,331	208,333	253,225	37,408	405,459
6 Puget sound and Washington	6 Puget sound and Washington	2,547	1,651					896
Do	5 Columbia and Willamette rivers	905		905				
Do	3 Northern California coast	321		321				
Do	2 San Francisco bay and rivers	415,633	238,041	177,279				313
Do	1 Southern California coast	36,632	3,647	32,985				
Do	7 Foreign	61,764		61,764				
Do	9 Alaska and Bering sea	800		800				
5 Columbia and Willamette rivers	3 Northern California coast	2,445		2,445				
Do	2 San Francisco bay and rivers	40,515		39,838				677
Do	1 Southern California coast	9,493		9,461		32		
Do	7 Foreign	2,847		2,847				
4 Oregon coast	2 San Francisco bay and rivers	101,632		100,268			945	419
Do	1 Southern California coast	5,588		5,588				
Do	7 Foreign	1,160		1,160				
3 Northern California coast	6 Puget sound and Washington	485		485				
Do	5 Columbia and Willamette rivers	635		635				
Do	2 San Francisco bay and rivers	246,024	3,375	239,439		2,384	126	700
Do	1 Southern California coast	37,960	1,125	36,825				10
Do	7 Foreign	7,383		7,383				
2 San Francisco bay and rivers	6 Puget sound and Washington	27,348						27,348
Do	5 Columbia and Willamette rivers	11,905						11,905
Do	4 Oregon coast	10,589	56					10,533
Do	3 Northern California coast	7,423						7,423
Do	2 San Francisco bay and rivers	820,828	112,459	128,654	200,784	233,466	7,918	137,547
Do	1 Southern California coast	1,476		1,476				
Do	7 Foreign	108,378	3,280	6,236		14,578		84,284
Do	9 Alaska and Bering sea	28,370	3,685	1,245				23,440
1 Southern California coast	6 Puget sound and Washington	165						165
Do	5 Columbia and Willamette rivers	750						750
Do	2 San Francisco bay and rivers	33						33
Do	1 Southern California coast	535					510	25
Do	7 Foreign	1,125		600	400			125
Do	9 Alaska and Bering sea	638						638
7 Foreign	6 Puget sound and Washington	2,758	2,016					742
Do	2 San Francisco bay and rivers	224,664	124,365	6,054	4,013	2,765	1,605	85,862
Do	1 Southern California coast	33,685	33,685					
Do	7 Foreign	38,658	24,916	12,612			230	900
Do	8 Atlantic ports	3,136			3,136			
Do	9 Alaska and Bering sea	1,500	1,500					
8 Atlantic ports	2 San Francisco bay and rivers	5,559						5,550
Do	7 Foreign	3,560						3,560
9 Alaska and Bering sea	6 Puget sound and Washington	1,820					1,820	
Do	2 San Francisco bay and rivers	41,734	16,041	26			24,053	1,614
Do	7 Foreign	201					201	

TRAFFIC OPERATIONS—Continued.

TABLE 9.—INTERDISTRICT MOVEMENT (FREIGHT)—Continued.

SAN FRANCISCO, CALIFORNIA (ALL CRAFT).

INTERDISTRICT MOVEMENT.			COMMODITIES (IN TONS).						
From—	To—		Total.	Coal.	Lumber.	Mines and quarries.	Agricultural.	Animal products including fish.	All other products.
Total			4,799,553	858,333	1,423,212	306,365	1,025,408	49,584	1,136,651
6 Puget sound and Washington	6 Puget sound and Washington	2,547		1,651					896
Do	5 Columbia and Willamette rivers	905			905				
Do	3 Northern California coast	321			321				
Do	2 San Francisco bay and rivers	507,758		305,894	201,551				313
Do	1 Southern California coast	38,362		3,647	34,197			518	
Do	7 Foreign	61,764			61,764				
Do	9 Alaska and Bering sea	800			800				
5 Columbia and Willamette rivers	3 Northern California coast	2,445			2,445				
Do	2 San Francisco bay and rivers	40,515			39,838				677
Do	1 Southern California coast	9,493			9,461		32		
Do	7 Foreign	2,847			2,847				
4 Oregon coast	2 San Francisco bay and rivers	182,840		50,000	128,715		2,761	945	419
Do	1 Southern California coast	6,796			6,576		220		
Do	7 Foreign	1,160			1,160				
3 Northern California coast	6 Puget sound and Washington	485			485				
Do	5 Columbia and Willamette rivers	635			635				
Do	3 Northern California coast	47,074			1,024	45,000		1,050	
Do	2 San Francisco bay and rivers	510,071		3,375	495,722		8,802	1,472	700
Do	1 Southern California coast	86,763		1,125	85,119				519
Do	7 Foreign	8,324			8,324				
2 San Francisco bay and rivers	6 Puget sound and Washington	41,317							41,317
Do	5 Columbia and Willamette rivers	11,905							11,905
Do	4 Oregon coast	22,092		56					22,036
Do	3 Northern California coast	39,683							39,683
Do	2 San Francisco bay and rivers	2,043,051		169,440	272,587	222,808	874,489	14,068	489,659
Do	1 Southern California coast	320,967		43,700	5,151				272,116
Do	7 Foreign	127,392		3,280	6,236		14,578		103,298
Do	9 Alaska and Bering sea	47,267		3,862	1,245				42,160
1 Southern California coast	6 Puget sound and Washington	165							165
Do	5 Columbia and Willamette rivers	750							750
Do	2 San Francisco bay and rivers	161,308			36,416	15,318	109,041	500	33
Do	1 Southern California coast	12,535					12,000	510	25
Do	7 Foreign	4,495		270	800	400	682		2,343
Do	9 Alaska and Bering sea	638							638
7 Foreign	6 Puget sound and Washington	18,358		2,016		15,600			742
Do	5 Columbia and Willamette rivers	4,245		4,245					
Do	2 San Francisco bay and rivers	297,845		188,601	6,242	4,013	2,765	1,605	94,619
Do	1 Southern California coast	33,720		33,685			25	10	
Do	7 Foreign	38,658		24,916	12,612			230	900
Do	8 Atlantic ports	3,136				3,136			
Do	9 Alaska and Bering sea	2,529		2,529					
8 Atlantic ports	2 San Francisco bay and rivers	5,550							5,550
Do	7 Foreign	3,560							3,560
9 Alaska and Bering sea	6 Puget sound and Washington	1,820						1,820	
Do	2 San Francisco bay and rivers	44,336		16,041	26			26,655	1,614
Do	7 Foreign	201						201	
Do	9 Alaska and Bering sea	125			8	90	13		14

HUMBOLDT, CALIFORNIA (STEAMERS AND UNRIGGED CRAFT).

3 Northern California coast	3 Northern California coast	121,582	70,944	44,301	592	79	5,666
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HUMBOLDT, CALIFORNIA (SAILING VESSELS).

Total		40,124	36,377	1,543	100	2,104
6 Puget sound and Washington	2 San Francisco bay and rivers	4,781	4,781			
5 Columbia and Willamette rivers	do	400	400			
Do	1 Southern California coast	625	625			
4 Oregon coast	2 San Francisco bay and rivers	1,608	1,608			
3 Northern California coast	6 Puget sound and Washington	455	455			
Do	5 Columbia and Willamette rivers	625	625			
Do	3 Northern California coast	5,880	5,780	100		
Do	2 San Francisco bay and rivers	11,603	11,603			
Do	1 Southern California coast	7,520	7,520			
Do	7 Foreign	2,065	2,065			
2 San Francisco bay and rivers	6 Puget sound and Washington	100				106
Do	5 Columbia and Willamette rivers	100				100
Do	3 Northern California coast	200				200
Do	7 Foreign	1,887	915			972
7 Foreign	2 San Francisco bay and rivers	2,275		1,543		732

STATISTICS OF TRANSPORTATION.

TRAFFIC OPERATIONS—Continued.

TABLE 9.—INTERDISTRICT MOVEMENT (FREIGHT)—Continued.

HUMBOLDT, CALIFORNIA (ALL CRAFT).

INTERDISTRICT MOVEMENT.		COMMODITIES (IN TONS).						
From—	To—	Total.	Coal.	Lumber.	Mines and quarries.	Agricultural.	Animal products including fish.	All other products.
Total		161,706		107,321	45,844	692	79	7,770
6 Puget sound and Washington	2 San Francisco bay and rivers	4,781		4,781				
5 Columbia and Willamette rivers	do	400		400				
Do	1 Southern California coast	625		625				
4 Oregon coast	2 San Francisco bay and rivers	1,608		1,608				
3 Northern California coast	6 Puget sound and Washington	455		455				
Do	5 Columbia and Willamette rivers	625		625				
Do	3 Northern California coast	127,462		76,724	44,301	692	79	5,666
Do	2 San Francisco bay and rivers	11,603		11,603				
Do	1 Southern California coast	7,520		7,520				
Do	7 Foreign	2,065		2,065				
2 San Francisco bay and rivers	6 Puget sound and Washington	100						100
Do	5 Columbia and Willamette rivers	100						100
Do	3 Northern California coast	200						200
Do	7 Foreign	1,887		915				972
7 Foreign	2 San Francisco bay and rivers	2,275			1,543			732

SOUTHERN DISTRICT OREGON, OREGON (STEAMERS AND UNRIGGED CRAFT).

4 Oregon coast	4 Oregon coast	175,359	25	139,737	502	20,940	150	14,005
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SOUTHERN DISTRICT OREGON, OREGON (SAILING VESSELS).

Total		2,916		2,466				450
4 Oregon coast	2 San Francisco bay and rivers	2,204		2,204				
Do	1 Southern California coast	262		262				
2 San Francisco bay and rivers	4 Oregon coast	450						450

SOUTHERN DISTRICT OREGON, OREGON (ALL CRAFT).

Total		178,275	25	142,203	502	20,940	150	14,455
4 Oregon coast	4 Oregon coast	175,359	25	139,737	502	20,940	150	14,005
Do	2 San Francisco bay and rivers	2,204		2,204				
Do	1 Southern California coast	262		262				
2 San Francisco bay and rivers	4 Oregon coast	450						450

YAQUINA, OREGON (STEAMERS AND UNRIGGED CRAFT).

Total		31,583		881	14,762	1,534		14,406
5 Columbia and Willamette rivers	4 Oregon coast	1,343		83	100			1,160
4 Oregon coast	5 Columbia and Willamette rivers	1,094		184		825		
Do	4 Oregon coast	2,453		494		709		1,250
Do	2 San Francisco bay and rivers	4,603		120				4,483
2 San Francisco bay and rivers	4 Oregon coast	22,090			14,577			7,513

OREGON, OREGON (STEAMERS AND UNRIGGED CRAFT).

Total		242,130	160	201,407	5,380	5,476	2,972	20,735
6 Puget sound and Washington	6 Puget sound and Washington	100,464		94,781		1,221	563	3,899
Do	5 Columbia and Willamette rivers	427					427	
Do	4 Oregon coast	400						400
5 Columbia and Willamette rivers	6 Puget sound and Washington	315						315
Do	5 Columbia and Willamette rivers	104,547	160	77,267	4,420	3,180	1,982	17,538
Do	4 Oregon coast	250						250
Do	2 San Francisco bay and rivers	1,805		1,345		460		
Do	1 Southern California coast	1,300		1,000		300		
4 Oregon coast	6 Puget sound and Washington	212						212
Do	4 Oregon coast	28,930		27,014	960	315		641
2 San Francisco bay and rivers	5 Columbia and Willamette rivers	2,288						2,288
1 Southern California coast	do	1,192						1,192

TRAFFIC OPERATIONS—Continued.

TABLE 9.—INTERDISTRICT MOVEMENT (FREIGHT)—Continued.

OREGON, OREGON (SAILING VESSELS).

INTERDISTRICT MOVEMENT.		COMMODITIES (IN TONS).						
From—	To—	Total.	Coal.	Lumber.	Mines and quarries.	Agricul- tural.	Animal products including fish.	All other products.
Total		21,097		14,481	42	597	3,433	2,544
6 Puget sound and Washington	6 Puget sound and Washington	2,576					2,551	25
5 Columbia and Willamette rivers	5 Columbia and Willamette rivers	18,503		14,478	40	597	877	2,511
Do	4 Oregon coast	5		3	2			
4 Oregon coast	5 Columbia and Willamette rivers	8						8
7 Foreign	9 Alaska and Bering sea	5					5	

OREGON, OREGON (ALL CRAFT).

Total		263,227	160	215,888	5,422	6,073	6,405	23,279
6 Puget sound and Washington	6 Puget sound and Washington	103,040		94,781		1,221	3,114	3,924
Do	5 Columbia and Willamette rivers	427					427	
Do	4 Oregon coast	400						400
5 Columbia and Willamette rivers	6 Puget sound and Washington	315						315
Do	5 Columbia and Willamette rivers	123,050	160	91,745	4,460	3,777	2,859	20,049
Do	4 Oregon coast	255		3	2			250
Do	2 San Francisco bay and rivers	1,805		1,345		460		
Do	1 Southern California coast	1,300		1,000		300		
4 Oregon coast	6 Puget sound and Washington	212						212
Do	5 Columbia and Willamette rivers	8						8
Do	4 Oregon coast	28,930		27,014	960	815		641
2 San Francisco bay and rivers	5 Columbia and Willamette rivers	2,288						2,288
1 Southern California coast	do	1,192						1,192
7 Foreign	9 Alaska and Bering sea	5					5	

WILLAMETTE, OREGON (STEAMERS AND UNRIGGED CRAFT).

Total		544,495	67,717	281,867	56,152	29,204	8,004	101,551
6 Puget sound and Washington	5 Columbia and Willamette rivers	800						800
Do	2 San Francisco bay and rivers	52,186	50,652	180				1,354
Do	7 Foreign	14,466						14,466
5 Columbia and Willamette rivers	6 Puget sound and Washington	7,381	30	525		441		6,385
Do	5 Columbia and Willamette rivers	467,230	17,035	278,735	56,152	28,763	8,004	78,541
Do	4 Oregon coast	2,427		2,427				
2 San Francisco bay and rivers	6 Puget sound and Washington	5						5

WILLAMETTE, OREGON (SAILING VESSELS).

Total		10,037		439		315	700	8,583
5 Columbia and Willamette rivers	5 Columbia and Willamette rivers	25						25
Do	7 Foreign	439		439				
2 San Francisco bay and rivers	do	4,030						4,030
Do	9 Alaska and Bering sea	1,340						1,340
7 Foreign	5 Columbia and Willamette rivers	1,203				315		888
Do	2 San Francisco bay and rivers	2,300						2,300
9 Alaska and Bering sea	do	700					700	

WILLAMETTE, OREGON (ALL CRAFT).

Total		554,532	67,717	282,306	56,152	29,519	8,704	110,134
6 Puget sound and Washington	5 Columbia and Willamette rivers	800						800
Do	2 San Francisco bay and rivers	52,186	50,652	180				1,354
Do	7 Foreign	14,466						14,466
5 Columbia and Willamette rivers	6 Puget sound and Washington	7,381	30	525		441		6,385
Do	5 Columbia and Willamette rivers	467,235	17,035	278,735	56,152	28,763	8,004	78,566
Do	4 Oregon coast	2,427		2,427				
Do	7 Foreign	439		439				
2 San Francisco bay and rivers	6 Puget sound and Washington	5						5
Do	7 Foreign	4,030						4,030
Do	9 Alaska and Bering sea	1,340						1,340
7 Foreign	5 Columbia and Willamette rivers	1,203				315		888
Do	2 San Francisco bay and rivers	2,300						2,300
9 Alaska and Bering sea	do	700					700	

STATISTICS OF TRANSPORTATION.

TRAFFIC OPERATIONS—Continued.

TABLE 9.—INTERDISTRICT MOVEMENT (FREIGHT)—Continued.

PUGET SOUND, WASHINGTON (STEAMERS AND UNRIGGED CRAFT).

INTERDISTRICT MOVEMENT.		COMMODITIES (IN TONS).						
From—	To—	Total.	Coal.	Lumber.	Mines and quarries.	Agricultural.	Animal products including fish.	All other products.
Total		2,315,623	4,187	1,822,720	53,184	46,236	5,771	383,525
6 Puget sound and Washington	6 Puget sound and Washington	2,315,119	3,883	1,822,720	53,184	46,236	5,771	383,325
Do	7 Foreign	40						40
5 Columbia and Willamette rivers	5 Columbia and Willamette rivers	100						100
Do	4 Oregon coast	60						60
7 Foreign	6 Puget sound and Washington	304	304					

PUGET SOUND, WASHINGTON (SAILING VESSELS).

Total		326,183	58,153	215,786	4,898	8,322	2,080	36,944
6 Puget sound and Washington	6 Puget sound and Washington	15,117	119	4,038	4,888	4,026	181	1,865
Do	2 San Francisco bay and rivers	208,759	40,909	167,850				
Do	1 Southern California coast	7,833	3,360	4,473				
Do	7 Foreign	38,968	2,934	36,034				
3 Northern California coast	2 San Francisco bay and rivers	760		760				
Do	7 Foreign	2,400		2,400				
2 San Francisco bay and rivers	6 Puget sound and Washington	22,628	21		10	2,545		20,052
Do	7 Foreign	4,654	728	175		1,751		2,000
Do	9 Alaska and Bering sea	750						750
7 Foreign	6 Puget sound and Washington	56		56				
Do	2 San Francisco bay and rivers	17,460	4,260				923	12,277
Do	1 Southern California coast	5,822	5,822					
9 Alaska and Bering sea	6 Puget sound and Washington	8					8	
Do	2 San Francisco bay and rivers	910					910	
Do	9 Alaska and Bering sea	58					58	

PUGET SOUND, WASHINGTON (ALL CRAFT).

Total		2,641,806	62,340	2,038,506	58,082	54,558	7,851	420,469
6 Puget Sound and Washington	6 Puget sound and Washington	2,330,236	4,002	1,826,758	58,072	50,262	5,952	385,190
Do	2 San Francisco bay and rivers	208,759	40,909	167,850				
Do	1 Southern California coast	7,833	3,360	4,473				
Do	7 Foreign	39,008	2,934	36,034				40
5 Columbia and Willamette rivers	5 Columbia and Willamette rivers	100						100
Do	4 Oregon coast	60						60
3 Northern California coast	2 San Francisco bay and rivers	760		760				
Do	7 Foreign	2,400		2,400				
2 San Francisco bay and rivers	6 Puget sound and Washington	22,628	21		10	2,545		20,052
Do	7 Foreign	4,654	728	175		1,751		2,000
Do	9 Alaska and Bering sea	750						750
7 Foreign	6 Puget sound and Washington	360	304	56				
Do	2 San Francisco bay and rivers	17,460	4,260				923	12,277
Do	1 Southern California coast	5,822	5,822					
9 Alaska and Bering sea	6 Puget sound and Washington	8					8	
Do	2 San Francisco bay and rivers	910					910	
Do	9 Alaska and Bering sea	58					58	

TRAFFIC OPERATIONS—Continued.

TABLE 10.—INTERDISTRICT MOVEMENT (MILEAGE)—NUMBER OF MILES COVERED IN THE TRANSPORTATION OF 8,818,363 TONS OF FREIGHT BY THE OPERATING CRAFT OF EACH CUSTOMS DISTRICT, IN THEIR MOVEMENT WITHIN OR BETWEEN CERTAIN TRAFFIC DISTRICTS. (a)

ALL CRAFT.			SAN FRANCISCO, CALIFORNIA (STEAMERS AND UNRIGGED CRAFT)—Continued.		
From—	To—	Miles.	From—	To—	Miles.
Total		12,273,515	5 Columbia and Willamette rivers..	2 San Francisco bay and rivers.....	39,833
SAN DIEGO, CALIFORNIA (STEAMERS AND UNRIGGED CRAFT).			Do.....	9 Alaska and Bering sea.....	24,882
1 Southern California coast.....	1 Southern California coast	43,867	4 Oregon coast.....	2 San Francisco bay and rivers.....	49,995
SAN DIEGO, CALIFORNIA (SAILING VESSELS).			Do.....	1 Southern California coast.....	1,542
Total		15,274	3 Northern California coast.....	3 Northern California coast	10,720
2 San Francisco bay and rivers..	7 Foreign.....	3,200	Do.....	2 San Francisco bay and rivers.....	170,507
1 Southern California coast.....	1 Southern California coast.....	5,688	Do.....	1 Southern California coast.....	100,587
Do.....	7 Foreign.....	3,418	Do.....	7 Foreign.....	1,716
7 Foreign.....	1 Southern California coast.....	1,000	2 San Francisco bay and rivers..	6 Puget sound and Washington	89,707
Do.....	7 Foreign.....	1,968	Do.....	4 Oregon coast	49,995
SAN DIEGO, CALIFORNIA (ALL CRAFT).			Do.....	3 Northern California coast	170,508
Total		59,141	Do.....	2 San Francisco bay and rivers.....	1,637,420
2 San Francisco bay and rivers..	7 Foreign.....	3,200	Do.....	1 Southern California coast	131,013
1 Southern California coast.....	1 Southern California coast.....	49,555	Do.....	7 Foreign.....	111,267
Do.....	7 Foreign.....	3,418	Do.....	8 Atlantic ports	13,250
7 Foreign.....	1 Southern California coast.....	1,000	Do.....	9 Alaska and Bering sea.....	73,702
Do.....	7 Foreign.....	1,968	1 Southern California coast.....	2 San Francisco bay and rivers.....	131,013
WILMINGTON, CALIFORNIA (STEAMERS AND UNRIGGED CRAFT).			Do.....	1 Southern California coast.....	2,255
Total		48,752	Do.....	7 Foreign.....	16,696
4 Oregon coast	1 Southern California coast.....	17,305	7 Foreign.....	6 Puget sound and Washington	23,658
1 Southern California coast	4 Oregon coast.....	17,305	Do.....	5 Columbia and Willamette rivers..	25,480
Do.....	1 Southern California coast.....	14,142	Do.....	2 San Francisco bay and rivers.....	111,268
WILMINGTON, CALIFORNIA (SAILING VESSELS).			Do.....	1 Southern California coast.....	16,696
Total		26,436	Do.....	9 Alaska and Bering sea.....	4,400
6 Puget sound and Washington..	1 Southern California coast	3,820	9 Alaska and Bering sea.....	2 San Francisco bay and rivers.....	73,763
4 Oregon coast.....	do.....	4,446	Do.....	9 Alaska and Bering sea	7,516
3 Northern California coast	do.....	10,800	SAN FRANCISCO, CALIFORNIA (SAILING VESSELS).		
1 Southern California coast.....	do.....	7,370	Total		4,772,113
WILMINGTON, CALIFORNIA (ALL CRAFT).			6 Puget sound and Washington	6 Puget sound and Washington	724
Total		73,188	Do.....	5 Columbia and Willamette rivers..	1,026
6 Puget sound and Washington..	1 Southern California coast	3,820	Do.....	3 Northern California coast	1,422
4 Oregon coast.....	do.....	21,751	Do.....	2 San Francisco bay and rivers.....	310,222
3 Northern California coast.....	do.....	10,800	Do.....	1 Southern California coast.....	59,370
1 Southern California coast.....	do.....	21,512	Do.....	7 Foreign.....	228,285
Do.....	4 Oregon coast	17,305	Do.....	9 Alaska and Bering sea	8,715
SAN FRANCISCO, CALIFORNIA (STEAMERS AND UNRIGGED CRAFT).			5 Columbia and Willamette rivers..	5 Columbia and Willamette rivers..	298
Total		3,207,096	Do.....	3 Northern California coast	1,094
6 Puget sound and Washington	6 Puget sound and Washington	2,234	Do.....	2 San Francisco bay and rivers.....	34,207
Do.....	5 Columbia and Willamette rivers..	3,420	Do.....	1 Southern California coast	12,262
Do.....	3 Northern California coast	1,208	Do.....	7 Foreign.....	18,282
Do.....	2 San Francisco bay and rivers.....	89,706	Do.....	9 Alaska and Bering sea	1,018
Do.....	1 Southern California coast.....	4,335	4 Oregon coast.....	2 San Francisco bay and rivers.....	99,648
Do.....	9 Alaska and Bering sea	16,744	Do.....	1 Southern California coast.....	27,646
SAN FRANCISCO, CALIFORNIA (SAILING VESSELS).			Do.....	7 Foreign.....	9,185
Total		154,968	3 Northern California coast.....	6 Puget sound and Washington	1,422
6 Puget sound and Washington	6 Puget sound and Washington	228,286	Do.....	5 Columbia and Willamette rivers..	1,095
Do.....	2 San Francisco bay and rivers.....	625,692	Do.....	2 San Francisco bay and rivers.....	152,521
Do.....	1 Southern California coast	42,260	Do.....	1 Southern California coast.....	88,262
Do.....	7 Foreign.....	166,363	Do.....	7 Foreign.....	41,896
Do.....	8 Atlantic ports	16,155	2 San Francisco bay and rivers..	6 Puget sound and Washington	310,222
Do.....	9 Alaska and Bering sea	2,750	Do.....	5 Columbia and Willamette rivers..	34,208
8 Atlantic ports	2 San Francisco bay and rivers.....	17,000	Do.....	4 Oregon coast	99,649
Do.....	7 Foreign.....	16,155	Do.....	3 Northern California coast	152,521
9 Alaska and Bering sea	6 Puget sound and Washington	8,715	Do.....	2 San Francisco bay and rivers.....	889,469
Do.....	2 San Francisco bay and rivers.....	154,968	Do.....	1 Southern California coast	3,472
Do.....	7 Foreign.....	2,750	Do.....	7 Foreign.....	625,692

a See page 7 and Table 9.

STATISTICS OF TRANSPORTATION.

TRAFFIC OPERATIONS—Continued.

TABLE 10.—INTERDISTRICT MOVEMENT (MILEAGE)—Continued.

SAN FRANCISCO, CALIFORNIA (ALL CRAFT).			HUMBOLDT, CALIFORNIA (ALL CRAFT).		
From—	To—	Miles.	From—	To—	Miles.
Total		7,979,209	Total		126,070
6 Puget sound and Washington..	6 Puget sound and Washington..	2,958	6 Puget sound and Washington..	2 San Francisco bay and rivers...	4,600
Do.....	5 Columbia and Willamette rivers.	4,440	Do.....	1 Southern California coast.....	2,458
Do.....	3 Northern California coast.....	2,630	5 Columbia and Willamette rivers	2 San Francisco bay and rivers...	555
Do.....	2 San Francisco bay and rivers...	399,928	Do.....	1 Southern California coast.....	1,015
Do.....	1 Southern California coast.....	63,705	4 Oregon coast.....	2 San Francisco bay and rivers...	3,030
Do.....	7 Foreign.....	228,285	3 Northern California coast.....	6 Puget sound and Washington..	560
Do.....	9 Alaska and Bering sea.....	25,459	Do.....	5 Columbia and Willamette rivers.	985
5 Columbia and Willamette rivers	5 Columbia and Willamette rivers.	298	Do.....	3 Northern California coast.....	31,237
Do.....	3 Northern California coast.....	1,094	Do.....	2 San Francisco bay and rivers...	5,337
Do.....	2 San Francisco bay and rivers...	74,040	Do.....	1 Southern California coast.....	11,925
Do.....	1 Southern California coast.....	12,262	Do.....	7 Foreign.....	19,228
Do.....	7 Foreign.....	18,282	2 San Francisco bay and rivers..	6 Puget sound and Washington..	4,600
Do.....	9 Alaska and Bering sea.....	25,900	Do.....	5 Columbia and Willamette rivers.	555
4 Oregon coast.....	2 San Francisco bay and rivers...	149,643	Do.....	3 Northern California coast.....	5,337
Do.....	1 Southern California coast.....	29,188	Do.....	7 Foreign.....	17,045
Do.....	7 Foreign.....	9,185	7 Foreign.....	2 San Francisco bay and rivers...	17,045
3 Northern California coast.....	6 Puget sound and Washington..	1,422	Do.....	7 Foreign.....	558
Do.....	5 Columbia and Willamette rivers.	1,095	SOUTHERN DISTRICT OREGON, OREGON (STEAMERS AND UNRIGGED CRAFT).		
Do.....	3 Northern California coast.....	10,720	4 Oregon coast.....	4 Oregon coast.....	98,222
Do.....	2 San Francisco bay and rivers...	323,028	SOUTHERN OREGON, OREGON (SAILING VESSELS).		
Do.....	1 Southern California coast.....	188,849	Total		8,920
Do.....	7 Foreign.....	43,612	4 Oregon coast.....	2 San Francisco bay and rivers...	3,660
2 San Francisco bay and rivers...	6 Puget sound and Washington..	399,929	Do.....	1 Southern California coast.....	1,600
Do.....	5 Columbia and Willamette rivers.	34,208	2 San Francisco bay and rivers..	4 Oregon coast.....	3,660
Do.....	4 Oregon coast.....	149,644	SOUTHERN OREGON, OREGON (ALL CRAFT).		
Do.....	3 Northern California coast.....	323,029	Total		107,142
Do.....	2 San Francisco bay and rivers...	2,526,889	4 Oregon coast.....	4 Oregon coast.....	98,222
Do.....	1 Southern California coast.....	134,485	Do.....	2 San Francisco bay and rivers...	3,660
Do.....	7 Foreign.....	736,959	Do.....	1 Southern California coast.....	1,600
Do.....	8 Atlantic ports.....	13,250	2 San Francisco bay and rivers..	4 Oregon coast.....	3,660
Do.....	9 Alaska and Bering sea.....	228,730	YACQUINA, OREGON (STEAMERS AND UNRIGGED CRAFT).		
6 Southern California coast.....	6 Puget sound and Washington..	59,370	Total		68,158
Do.....	5 Columbia and Willamette rivers.	12,262	5 Columbia and Willamette rivers	4 Oregon coast.....	4,362
Do.....	2 San Francisco bay and rivers...	134,485	4 Oregon coast.....	5 Columbia and Willamette rivers.	4,362
Do.....	1 Southern California coast.....	4,715	Do.....	4 Oregon coast.....	27,514
Do.....	7 Foreign.....	58,956	Do.....	2 San Francisco bay and rivers...	15,960
Do.....	9 Alaska and Bering sea.....	2,400	2 San Francisco bay and rivers..	4 Oregon coast.....	15,960
7 Foreign.....	6 Puget sound and Washington..	251,944	HUMBOLDT, CALIFORNIA (STEAMERS AND UNRIGGED CRAFT).		
Do.....	5 Columbia and Willamette rivers.	25,480	Total		102,063
Do.....	2 San Francisco bay and rivers...	736,960	6 Puget sound and Washington..	2 San Francisco bay and rivers...	4,600
Do.....	1 Southern California coast.....	58,956	Do.....	1 Southern California coast.....	2,458
Do.....	7 Foreign.....	166,363	5 Columbia and Willamette rivers	2 San Francisco bay and rivers...	555
Do.....	8 Atlantic ports.....	16,155	Do.....	1 Southern California coast.....	1,015
Do.....	9 Alaska and Bering sea.....	7,150	4 Oregon coast.....	2 San Francisco bay and rivers...	3,030
8 Atlantic ports.....	2 San Francisco bay and rivers...	17,000	3 Northern California coast.....	6 Puget sound and Washington..	560
Do.....	7 Foreign.....	16,155	Do.....	5 Columbia and Willamette rivers.	985
9 Alaska and Bering sea.....	6 Puget sound and Washington..	8,715	Do.....	3 Northern California coast.....	7,830
Do.....	2 San Francisco bay and rivers...	228,731	Do.....	2 San Francisco bay and rivers...	5,337
Do.....	7 Foreign.....	2,750	Do.....	1 Southern California coast.....	11,925
Do.....	9 Alaska and Bering sea.....	7,516	Do.....	7 Foreign.....	19,228
HUMBOLDT, CALIFORNIA (SAILING VESSELS).			2 San Francisco bay and rivers..	6 Puget sound and Washington..	4,600
Total		102,063	Do.....	5 Columbia and Willamette rivers.	555
6 Puget sound and Washington..	2 San Francisco bay and rivers...	4,600	Do.....	3 Northern California coast.....	5,337
Do.....	1 Southern California coast.....	2,458	Do.....	7 Foreign.....	17,045
5 Columbia and Willamette rivers	2 San Francisco bay and rivers...	555	7 Foreign.....	2 San Francisco bay and rivers...	17,045
Do.....	1 Southern California coast.....	1,015	Do.....	7 Foreign.....	558
4 Oregon coast.....	2 San Francisco bay and rivers...	3,030	OREGON, OREGON (STEAMERS AND UNRIGGED CRAFT).		
3 Northern California coast.....	6 Puget sound and Washington..	560	Total		276,076
Do.....	5 Columbia and Willamette rivers.	985	6 Puget sound and Washington..	6 Puget sound and Washington..	79,981
Do.....	3 Northern California coast.....	7,830	Do.....	5 Columbia and Willamette rivers.	3,675
Do.....	2 San Francisco bay and rivers...	5,337	Do.....	4 Oregon coast.....	9,048
Do.....	1 Southern California coast.....	11,925	5 Columbia and Willamette rivers	6 Puget sound and Washington..	3,675
Do.....	7 Foreign.....	19,228	Do.....	5 Columbia and Willamette rivers.	133,271
2 San Francisco bay and rivers..	6 Puget sound and Washington..	4,600	Do.....	4 Oregon coast.....	6,240
Do.....	5 Columbia and Willamette rivers.	555	Do.....	2 San Francisco bay and rivers...	4,170
Do.....	3 Northern California coast.....	5,337	Do.....	1 Southern California coast.....	7,370
Do.....	7 Foreign.....	17,045	4 Oregon coast.....	6 Puget sound and Washington..	9,048
7 Foreign.....	2 San Francisco bay and rivers...	17,045	Do.....	4 Oregon coast.....	7,458
Do.....	7 Foreign.....	558	2 San Francisco bay and rivers..	5 Columbia and Willamette rivers.	4,170
			Southern California coast.....	do.....	7,370
			9 Alaska and Bering sea.....	9 Alaska and Bering sea.....	600

TRANSPORTATION ON THE PACIFIC COAST.

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TRAFFIC OPERATIONS—Continued.

TABLE 10.—INTERDISTRICT MOVEMENT (MILEAGE)—Continued.

OREGON, OREGON (SAILING VESSELS).			WILLAMETTE, OREGON (ALL CRAFT)—Continued.		
From—	To—	Miles.	From—	To—	Miles.
Total.....		19,742	5 Columbia and Willamette rivers	6 Puget sound and Washington ..	18,624
6 Puget sound and Washington ..	6 Puget sound and Washington ..	8,350	Do.....	5 Columbia and Willamette rivers ..	991,219
5 Columbia and Willamette rivers ..	5 Columbia and Willamette rivers ..	8,892	Do.....	4 Oregon coast ..	5,720
Do.....	4 Oregon coast ..	60	Do.....	2 San Francisco bay and rivers ..	77,140
Oregon coast ..	5 Columbia and Willamette rivers ..	60	Do.....	7 Foreign ..	5,500
Do.....	4 Oregon coast ..	180	2 San Francisco bay and rivers ..	6 Puget sound and Washington ..	34,608
7 Foreign ..	9 Alaska and Bering sea ..	2,200	Do.....	7 Foreign ..	5,392
			Do.....	9 Alaska and Bering sea ..	3,100
			7 Foreign ..	5 Columbia and Willamette rivers ..	5,393
			Do.....	2 San Francisco bay and rivers ..	5,500
			9 Alaska and Bering sea ..	do.....	3,100
OREGON, OREGON (ALL CRAFT).			PUGET SOUND, WASHINGTON (STEAMERS AND UNRIGGED CRAFT).		
Total.....		295,818	Total.....		1,653,603
6 Puget sound and Washington ..	6 Puget sound and Washington ..	88,331	6 Puget sound and Washington ..	6 Puget sound and Washington ..	1,577,873
Do.....	5 Columbia and Willamette rivers ..	3,875	Do.....	7 Foreign ..	838
Do.....	4 Oregon coast ..	9,048	5 Columbia and Willamette rivers ..	5 Columbia and Willamette rivers ..	73,714
5 Columbia and Willamette rivers ..	6 Puget sound and Washington ..	3,675	Do.....	4 Oregon coast ..	340
Do.....	5 Columbia and Willamette rivers ..	142,163	7 Foreign ..	6 Puget sound and Washington ..	838
Do.....	4 Oregon coast ..	6,300			
Do.....	2 San Francisco bay and rivers ..	4,170			
Do.....	1 Southern California coast ..	7,370			
4 Oregon coast ..	6 Puget sound and Washington ..	9,048			
Do.....	5 Columbia and Willamette rivers ..	60			
Do.....	4 Oregon coast ..	7,638			
2 San Francisco bay and rivers ..	5 Columbia and Willamette rivers ..	4,170			
1 Southern California coast ..	do.....	7,370			
7 Foreign ..	9 Alaska and Bering sea ..	2,200			
9 Alaska and Bering sea ..	do.....	600			
WILLAMETTE, OREGON (STEAMERS AND UNRIGGED CRAFT).			PUGET SOUND, WASHINGTON (SAILING VESSELS).		
Total.....		1,346,979	Total.....		531,807
6 Puget sound and Washington ..	6 Puget sound and Washington ..	53,783	6 Puget sound and Washington ..	6 Puget sound and Washington ..	24,845
Do.....	5 Columbia and Willamette rivers ..	18,624	Do.....	2 San Francisco bay and rivers ..	124,105
Do.....	2 San Francisco bay and rivers ..	34,608	Do.....	1 Southern California coast ..	16,092
Do.....	7 Foreign ..	113,853	Do.....	7 Foreign ..	75,329
5 Columbia and Willamette rivers ..	6 Puget sound and Washington ..	18,624	3 Northern California coast ..	2 San Francisco bay and rivers ..	432
Do.....	5 Columbia and Willamette rivers ..	990,019	Do.....	7 Foreign ..	11,733
Do.....	4 Oregon coast ..	5,720	2 San Francisco bay and rivers ..	6 Puget sound and Washington ..	124,105
Do.....	2 San Francisco bay and rivers ..	77,140	Do.....	7 Foreign ..	23,000
2 San Francisco bay and rivers ..	6 Puget sound and Washington ..	34,608	Do.....	9 Alaska and Bering sea ..	3,000
			7 Foreign ..	6 Puget sound and Washington ..	75,329
			Do.....	2 San Francisco bay and rivers ..	23,000
			Do.....	1 Southern California coast ..	22,255
			Do.....	9 Alaska and Bering sea ..	1,082
			9 Alaska and Bering sea ..	6 Puget sound and Washington ..	2,000
			Do.....	2 San Francisco bay and rivers ..	3,000
			Do.....	9 Alaska and Bering sea ..	2,500
WILLAMETTE, OREGON (SAILING VESSELS).			PUGET SOUND, WASHINGTON (ALL CRAFT).		
Total.....		30,400	Total.....		2,185,410
6 Puget sound and Washington ..	1 Southern California coast ..	1,215	6 Puget sound and Washington ..	6 Puget sound and Washington ..	1,602,718
5 Columbia and Willamette rivers ..	5 Columbia and Willamette rivers ..	1,200	Do.....	2 San Francisco bay and rivers ..	124,105
Do.....	7 Foreign ..	5,392	Do.....	1 Southern California coast ..	16,092
2 San Francisco bay and rivers ..	do.....	5,500	Do.....	7 Foreign ..	76,167
Do.....	9 Alaska and Bering sea ..	3,100	5 Columbia and Willamette rivers ..	5 Columbia and Willamette rivers ..	73,714
7 Foreign ..	5 Columbia and Willamette rivers ..	5,393	Do.....	4 Oregon coast ..	340
Do.....	2 San Francisco bay and rivers ..	5,500	3 Northern California coast ..	2 San Francisco bay and rivers ..	432
9 Alaska and Bering sea ..	do.....	3,100	Do.....	7 Foreign ..	11,733
			2 San Francisco bay and rivers ..	6 Puget sound and Washington ..	124,105
			Do.....	7 Foreign ..	23,000
			Do.....	9 Alaska and Bering sea ..	3,000
			7 Foreign ..	6 Puget sound and Washington ..	76,167
			Do.....	2 San Francisco bay and rivers ..	23,000
			Do.....	1 Southern California coast ..	22,255
			Do.....	9 Alaska and Bering sea ..	1,082
			9 Alaska and Bering sea ..	6 Puget sound and Washington ..	2,000
			Do.....	2 San Francisco bay and rivers ..	3,000
			Do.....	9 Alaska and Bering sea ..	2,500
WILLAMETTE, OREGON (ALL CRAFT).					
Total.....		1,377,379			
6 Puget sound and Washington ..	6 Puget sound and Washington ..	53,783			
Do.....	5 Columbia and Willamette rivers ..	18,624			
Do.....	2 San Francisco bay and rivers ..	34,608			
Do.....	1 Southern California coast ..	1,215			
Do.....	7 Foreign ..	113,853			

STATISTICS OF TRANSPORTATION.

EARNINGS AND EXPENSES.

TABLE 11.—FINANCIAL ACCOUNT, IN GENERAL—GROSS EARNINGS, EXPENSES, AND NET EARNINGS OF ALL OPERATING CRAFT OVER FIVE TONS ON THE PACIFIC COAST IN 1889.

CUSTOMS DISTRICTS.	TOTAL ALL CRAFT.			STEAMERS AND UNRIGGED CRAFT.			SAILING VESSELS.		
	Gross earnings.	Expenses.	Net earnings.	Gross earnings.	Expenses.	Net earnings.	Gross earnings.	Expenses.	Net earnings.
Total	\$20,628,316.28	\$17,274,809.30	\$3,353,506.98	\$13,237,222.29	\$11,446,692.77	\$1,790,529.52	\$7,391,093.99	\$5,828,116.53	\$1,562,977.46
California	14,548,861.36	12,018,431.83	2,530,429.53	8,224,496.76	7,069,208.94	1,155,287.82	6,324,364.60	4,949,222.89	1,375,141.71
San Diego	62,707.47	60,442.84	2,264.63	42,507.47	45,985.04	3,477.57	20,200.00	14,457.80	5,742.20
Wilmington	91,689.68	89,509.73	2,179.95	64,406.14	63,576.84	829.30	27,283.54	25,932.89	1,350.65
San Francisco	14,191,341.93	11,701,926.71	2,489,415.22	8,015,094.94	6,872,414.76	1,142,680.18	6,176,246.99	4,829,511.95	1,346,735.04
Humboldt	203,122.28	166,552.55	36,569.73	102,488.21	87,232.30	15,255.91	103,644.07	79,320.25	21,313.82
Oregon	3,864,723.60	3,453,508.85	411,214.84	3,771,609.33	3,388,591.33	383,018.00	93,114.36	64,917.52	28,196.84
Southern Oregon	62,886.33	48,341.36	14,544.97	56,499.33	42,405.36	14,093.97	6,387.00	5,936.00	451.00
Yaquina	119,227.63	128,260.54	9,032.91	119,227.63	128,260.54	9,032.91			
Oregon	243,410.16	188,686.63	54,723.53	212,478.11	167,249.00	45,229.11	30,932.05	21,437.63	9,494.42
Willamette	3,439,189.57	3,088,220.32	350,979.25	3,383,404.26	3,050,676.43	332,727.83	55,795.31	37,543.89	18,251.42
Washington - Puget sound ..	2,214,731.23	1,802,868.62	411,862.61	1,241,116.20	988,892.50	252,223.70	973,615.03	813,976.12	159,638.91

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EARNINGS AND EXPENSES—Continued.

TABLE 12.—ITEMIZED EXPENSE ACCOUNT OF ALL VESSELS REPORTING AND ENGAGED IN THE TRANSPORTATION OF PASSENGERS AND FREIGHT ON THE PACIFIC COAST, SUBDIVIDED INTO THE VARIOUS ITEMS CONSTITUTING RUNNING AND SHORE EXPENSES.

STEAMERS AND SAILING VESSELS, EXCLUSIVE OF FERRYBOATS.

CUSTOMS DISTRICTS.	Number of vessels.	RUNNING EXPENSES.						
		Total.	Port charges.	Wages.	Provisions.	Current repairs.	Fuel for the steamers.	Other.
Total	1,001	\$13,226,080.53	\$292,085.09	\$5,212,039.20	\$1,507,183.73	\$1,098,232.29	\$2,094,523.42	\$3,021,416.80
California	724	8,783,424.68	179,435.86	3,670,038.30	1,095,267.48	808,728.93	1,496,655.60	1,533,298.51
San Diego	7	9,035.85	7.00	4,143.73	1,500.00	1,572.80		1,812.32
Wilmington	13	79,172.08	1,531.80	39,027.45	11,473.08	5,047.88	15,107.90	6,983.57
San Francisco	685	8,578,287.25	172,354.53	3,559,877.97	1,070,483.31	793,962.80	1,477,547.70	1,504,060.94
Humboldt	19	116,929.50	5,542.53	66,989.15	11,811.09	8,145.45	4,000.00	20,441.28
Oregon	132	2,992,026.41	74,898.01	559,531.59	196,108.54	184,579.53	419,920.30	1,256,988.44
Southern Oregon	13	41,868.05	103.50	29,484.00	2,910.00	3,602.55	4,820.80	947.20
Yaquina	7	95,958.43	1,368.80	36,153.31	9,330.44	5,854.63	22,703.00	20,548.25
Oregon	47	162,175.41	1,650.00	99,316.12	14,667.15	11,576.61	29,320.00	5,645.33
Willamette	65	2,692,024.52	71,775.71	694,578.16	169,200.95	163,545.74	363,076.50	1,229,847.46
Washington—Puget sound	145	1,450,629.44	37,751.22	683,069.31	215,807.71	104,923.83	177,947.52	231,129.85

CUSTOMS DISTRICTS.	SHORE EXPENSES.					
	Total.	Commissions.	Insurance.	Taxes.	Office expenses.	Other.
Total	\$1,672,060.79	\$175,080.30	\$542,938.01	\$125,655.76	\$210,130.26	\$618,256.46
California	1,185,713.91	133,206.84	422,993.73	93,389.87	173,002.66	363,120.81
San Diego	516.25		270.00	21.25		225.00
Wilmington	5,436.50		3,700.00	613.25		1,123.25
San Francisco	1,170,691.72	132,331.12	418,507.00	91,892.77	173,002.66	355,458.17
Humboldt	9,069.44	875.72	516.73	1,362.60		6,314.39
Oregon	295,866.34	20,920.40	54,131.70	18,195.61	27,543.94	175,674.69
Southern Oregon	754.50		150.00	424.50	180.00	
Yaquina	3,436.42		450.00	1,033.18		1,953.24
Oregon	3,650.91	110.00	1,985.70	870.21	350.00	235.00
Willamette	288,024.51	20,810.40	51,546.00	15,867.72	26,913.94	172,886.45
Washington—Puget sound	190,480.54	20,953.06	65,812.58	14,070.28	9,583.66	80,060.96

STEAMERS.

CUSTOMS DISTRICTS.	Number of vessels.	RUNNING EXPENSES.						
		Total.	Port charges.	Wages.	Provisions.	Current repairs.	Fuel for the steamers.	Other.
Total	354	\$8,460,400.63	\$135,921.09	\$2,924,205.19	\$832,191.57	\$613,703.33	\$2,094,523.42	\$1,859,856.03
California	147	4,726,952.38	55,737.81	1,703,263.70	516,875.06	380,400.08	1,496,655.60	574,020.13
Wilmington	5	55,903.74	222.25	25,826.45	8,169.77	2,152.13	15,107.90	4,425.24
San Francisco	136	4,029,573.76	55,035.56	1,655,683.25	508,705.20	375,725.58	1,477,547.70	556,876.38
Humboldt	6	41,474.88	480.00	21,754.00		2,522.37	4,000.00	12,718.51
Oregon	114	2,939,381.60	73,352.52	832,502.84	188,345.15	182,709.82	419,920.30	1,242,550.97
Southern Oregon	12	36,118.05		25,984.00	1,830.00	2,802.55	4,820.80	680.70
Yaquina	7	95,958.43	1,368.80	36,153.31	9,330.44	5,854.63	22,703.00	20,548.25
Oregon	33	150,964.89	1,650.00	88,927.37	13,917.15	11,576.61	29,320.00	5,573.76
Willamette	62	2,656,340.13	70,333.72	681,438.16	163,267.56	162,476.03	363,076.50	1,215,748.26
Washington—Puget sound	93	794,066.65	6,830.76	388,438.65	126,971.36	50,593.43	177,947.52	43,284.93

STATISTICS OF TRANSPORTATION.

EARNINGS AND EXPENSES—Continued.

TABLE 12.—ITEMIZED EXPENSE ACCOUNT—Continued.

STEAMERS—Continued.

CUSTOMS DISTRICTS.	SHORE EXPENSES.					
	Total.	Commissions.	Insurance.	Taxes.	Office expenses.	Other.
Total	\$1,035,370.82	\$75,819.03	\$384,795.87	\$72,799.12	\$210,130.26	\$291,826.54
California	675,842.96	50,935.52	309,627.00	49,396.93	173,002.66	92,883.85
Wilmington	4,521.95		3,700.00	435.00		386.95
San Francisco	666,117.20	50,935.52	305,702.00	48,745.33	173,002.66	87,731.69
Humboldt	5,203.81		225.00	216.60		4,762.21
Oregon	293,727.74	20,520.40	52,931.70	17,682.01	27,543.94	175,049.69
Southern Oregon	568.50			388.50	180.00	
Yaquina	3,436.42		450.00	1,033.18		1,953.24
Oregon	3,557.91	110.00	1,985.70	802.21	450.00	210.00
Willamette	286,164.91	20,410.40	50,496.00	15,458.12	26,913.94	172,886.45
Washington—Puget sound	65,800.12	4,363.11	22,237.17	5,720.18	9,583.66	23,896.00

SAILING VESSELS.

CUSTOMS DISTRICTS.	Number of vessels.	RUNNING EXPENSES.						
		Total.	Port charges.	Wages.	Provisions.	Current repairs.	Fuel for the steamers.	Other.
Total	647	\$4,765,679.90	\$156,164.00	\$2,288,434.01	\$674,992.16	\$484,528.96		\$1,161,560.77
California	577	4,056,472.20	123,698.05	1,966,774.60	578,392.42	428,328.85		959,278.38
San Diego	7	9,035.85	7.00	4,143.73	1,500.00	1,572.80		1,812.32
Wilmington	8	23,268.34	1,309.55	13,201.00	3,303.31	2,895.75		2,558.73
San Francisco	549	3,948,713.49	117,318.97	1,904,194.72	561,778.02	418,237.22		947,184.56
Humboldt	13	75,454.62	5,062.53	45,235.15	11,811.09	5,623.08		7,722.77
Oregon	18	52,644.81	1,545.49	27,028.75	7,763.39	1,869.71		12,437.47
Southern Oregon	1	5,750.00	103.50	3,500.00	1,080.00	800.00		266.50
Oregon	14	11,210.52		10,388.75	750.00			71.77
Willamette	3	35,684.29	1,441.99	13,140.00	5,933.39	1,069.71		14,099.20
Washington—Puget sound	52	656,562.79	30,920.46	294,630.66	88,836.35	54,330.40		187,844.92

CUSTOMS DISTRICTS.	SHORE EXPENSES.					
	Total.	Commissions.	Insurance.	Taxes.	Office expenses.	Other.
Total	\$636,689.97	\$99,261.27	\$158,142.14	\$52,856.64		\$326,429.92
California	509,870.95	82,271.32	113,366.73	43,992.94		270,230.96
San Diego	516.25		270.00	21.25		225.00
Wilmington	914.55			178.25		736.30
San Francisco	504,574.52	81,395.60	112,805.00	42,647.44		267,726.48
Humboldt	3,865.63	875.72	291.73	1,146.00		1,552.18
Oregon	2,138.60	400.00	1,200.00	513.60		25.00
Southern Oregon	186.00		150.00	36.00		
Oregon	93.00			68.00		25.00
Willamette	1,859.60	400.00	1,050.00	409.60		
Washington—Puget sound	124,680.42	16,589.95	43,575.41	8,350.10		56,164.96

EARNINGS AND EXPENSES—Continued.

TABLE 13.—EMPLOYÉS AND WAGES IN DETAIL—MONTHLY WAGES PAID IN EACH DISTRICT TO ALL GRADES OF EMPLOYÉS ON VESSELS ENGAGED IN THE TRANSPORTATION OF PASSENGERS AND FREIGHT ON THE PACIFIC COAST IN 1889, EXCLUSIVE OF FERRYBOATS.

STEAMERS AND SAILING VESSELS.

CUSTOMS DISTRICTS.	Num- ber of vessels.	TOTAL.		CAPTAINS.		FIRST MATES.		SECOND MATES, THIRD MATES, AND BOATSWAINS.		CLERKS AND PURSERS.		SURGEONS.	
		Num- ber.	Wages per month.	Num- ber.	Wages per month.	Num- ber.	Wages per month.	Num- ber.	Wages per month.	Num- ber.	Wages per month.	Num- ber.	Wages per month.
Total	1,001	10,396	\$521,502.86	1,001	\$95,175.97	665	\$89,573.77	432	\$20,756.16	189	\$12,652.50	2	\$110.00
Total steam	354	5,825	311,545.22	354	41,271.46	286	18,783.87	138	7,556.16	188	12,552.50	2	110.00
Total sail	647	4,571	209,957.64	647	53,904.51	399	20,789.90	294	13,200.00	1	100.00		

CUSTOMS DISTRICTS.	FIRST ENGINEERS.		SECOND ENGINEERS AND THIRD ENGINEERS.		FIREMEN AND COAL PASSERS.		WHEELMEN AND PILOTS.		LOOKOUTS.		WATCHMEN.	
	Num- ber.	Wages per month.	Num- ber.	Wages per month.	Num- ber.	Wages per month.	Num- ber.	Wages per month.	Num- ber.	Wages per month.	Num- ber.	Wages per month.
Total	353	\$35,798.54	251	\$18,650.00	657	\$29,847.26	134	\$9,509.17	24	\$1,039.50	160	\$6,702.73
Total steam	353	35,798.54	251	18,650.00	657	29,847.26	128	9,204.17	19	844.50	153	6,407.73
Total sail							6	305.00	5	195.00	7	295.00

CUSTOMS DISTRICTS.	COOKS AND BAKERS.		COOKS' ASSISTANTS, PANTRYMEN, AND BUTCHERS.		SEAMEN.		DECK HANDS AND PORTERS.		OILERS AND WATER TENDERS.	
	Num- ber.	Wages per month.	Num- ber.	Wages per month.	Num- ber.	Wages per month.	Num- ber.	Wages per month.	Num- ber.	Wages per month.
Total	726	\$35,339.45	393	\$10,952.28	3,331	\$127,817.33	939	\$38,344.25	172	\$8,053.37
Total steam	296	14,544.45	267	8,372.28	800	35,090.10	939	38,344.25	172	8,053.37
Total sail	430	20,795.00	126	2,580.00	2,531	92,727.23				

CUSTOMS DISTRICTS.	STEWARDS AND STORE- KEEPERS.		WAITERS.		BOYS.		CHAMBERMAIDS AND STEWARDESSES.		CARPENTERS.	
	Num- ber.	Wages per month.	Num- ber.	Wages per month.	Num- ber.	Wages per month.	Num- ber.	Wages per month.	Num- ber.	Wages per month.
Total	192	\$9,440.00	455	\$11,612.58	163	\$3,858.00	18	\$445.00	119	\$5,825.00
Total steam	177	8,870.00	455	11,612.58	140	3,517.00	18	445.00	32	1,670.00
Total sail	15	570.00			23	341.00			87	4,155.00

STATISTICS OF TRANSPORTATION.

EARNINGS AND EXPENSES—Continued.

TABLE 13.—EMPLOYEES AND WAGES IN DETAIL—Continued.

STEAMERS.

CUSTOMS DISTRICTS.	Number of vessels.	TOTAL.		CAPTAINS.		FIRST MATES.		SECOND MATES, THIRD MATES, AND BOATSWAINS.		CLERKS AND PURSERS.		SURGEONS.	
		Number.	Wages per month.	Number.	Wages per month.	Number.	Wages per month.	Number.	Wages per month.	Number.	Wages per month.	Number.	Wages per month.
Total	354	5,825	\$311,545.22	354	\$41,271.46	286	\$18,783.87	138	\$7,556.16	188	\$12,552.50	2	\$110.00
Total for California	147	3,342	182,278.16	147	19,756.30	128	9,684.37	108	6,025.00	89	6,421.50	2	110.00
Total for Oregon	114	1,738	87,698.21	114	12,288.50	84	5,062.00	27	1,431.16	66	4,166.00		
Total for Washington	93	745	41,568.85	93	9,226.66	74	4,037.50	3	100.00	33	1,965.00		
California	147	3,342	182,278.16	147	19,756.30	128	9,684.37	108	6,025.00	89	6,421.50	2	110.00
Wilmington	5	49	3,060.20	5	600.30	3	191.87	2	105.00	1	54.00		
San Francisco	136	3,270	177,925.96	136	18,710.00	123	9,417.50	106	5,920.00	88	6,367.50		110.00
Humboldt	6	23	1,292.00	6	446.00	2	75.00						
Oregon	114	1,738	87,698.21	114	12,288.50	84	5,062.00	27	1,431.16	66	4,166.00		
Southern Oregon	12	42	2,717.00	12	980.00	2	90.00			1	100.00		
Yaquina	7	60	3,250.00	7	615.00	3	190.00	1	60.00	1	75.00		
Oregon	33	168	10,168.82	33	2,892.50	20	1,030.00	5	241.66	5	335.00		
Willamette	62	1,468	71,562.39	62	7,801.00	59	3,752.00	21	1,129.50	59	3,656.00		
Washington—Puget sound	93	745	41,568.85	93	9,226.66	74	4,037.50	3	100.00	33	1,965.00		

CUSTOMS DISTRICTS.	FIRST ENGINEERS.		SECOND ENGINEERS AND THIRD ENGINEERS.		FIREMEN AND COAL PASSERS.		WHEELMEN AND PILOTS.		LOOKOUTS.		WATCHMEN.	
	Number.	Wages per month.	Number.	Wages per month.	Number.	Wages per month.	Number.	Wages per month.	Number.	Wages per month.	Number.	Wages per month.
Total	353	\$35,798.54	251	\$18,650.00	657	\$29,847.26	128	\$9,204.17	19	\$344.50	153	\$6,407.73
Total for California	146	16,338.22	155	12,462.50	395	18,589.46	91	7,054.17	13	544.50	73	3,147.73
Total for Oregon	114	11,390.16	65	4,322.50	191	8,262.62	33	1,900.00	6	300.00	57	2,320.00
Total for Washington	93	8,070.16	31	1,865.00	71	2,995.18	4	250.00			23	940.00
California	146	16,338.22	155	12,462.50	395	18,589.46	91	7,054.17	13	544.50	73	3,147.73
Wilmington	5	546.72	1	90.00	4	156.09	1	45.00			2	122.73
San Francisco	135	15,365.50	152	12,292.50	391	18,433.37	90	7,009.17	13	544.50	71	3,025.00
Humboldt	6	426.00	2	80.00								
Oregon	114	11,390.16	65	4,322.50	191	8,262.62	33	1,900.00	6	300.00	57	2,320.00
Southern Oregon	12	925.00	2	105.00	1	50.00					1	40.00
Yaquina	7	505.00	3	210.00	7	310.00	2	90.00				
Oregon	33	2,679.16	6	342.50	6	272.50					3	120.00
Willamette	62	7,281.00	54	3,665.00	177	7,630.12	31	1,810.00	6	300.00	53	2,160.00
Washington—Puget sound	93	8,070.16	31	1,865.00	71	2,995.18	4	250.00			23	940.00

EARNINGS AND EXPENSES—Continued.

TABLE 13.—EMPLOYEES AND WAGES IN DETAIL—Continued.

STEAMERS—Continued.

CUSTOMS DISTRICTS.	COOKS AND BAKERS.		COOKS' ASSISTANTS, PANTRYMEN, AND BUTCHERS.		SEAMEN.		DECK HANDS AND PORTERS.		OILERS AND WATER TENDERS.	
	Num- ber.	Wages per month.	Num- ber.	Wages per month.	Num- ber.	Wages per month.	Num- ber.	Wages per month.	Num- ber.	Wages per month.
Total	296	\$14,544.45	267	\$8,372.28	800	\$35,090.10	939	\$38,344.25	172	\$8,053.37
Total for California	141	7,786.78	162	5,194.78	659	29,250.00	458	19,202.40	123	5,863.37
Total for Oregon	84	3,660.17	84	2,650.00	124	5,205.00	329	13,257.60	48	2,150.00
Total for Washington	71	3,097.50	21	527.50	17	635.10	152	5,884.25	1	40.00
California	141	7,786.78	162	5,194.78	659	29,250.00	458	19,202.40	123	5,863.37
Wilmington	4	212.78	1	34.86	4	180.00	6	267.40	4	203.37
San Francisco	137	7,574.00	161	5,159.92	655	29,070.00	447	18,755.00	117	5,575.00
Humboldt							5	180.00	2	85.00
Oregon	84	3,660.17	84	2,650.00	124	5,205.00	329	13,257.60	48	2,150.00
Southern Oregon	1	26.00					10	401.00		
Yaquina	4	170.00	5	215.00	6	270.00	3	130.00	3	135.00
Oregon	12	465.00	1	25.00	11	415.00	25	1,045.50	1	35.00
Willamette	67	2,999.17	78	2,410.00	107	4,520.00	291	11,681.10	44	1,980.00
Washington—Puget sound	71	3,097.50	21	527.50	17	635.10	152	5,884.25	1	40.00

CUSTOMS DISTRICTS.	STEWARDS AND STORE- KEEPERS.		WAITERS.		BOYS.		CHAMBERMAIDS AND STEWARDESSES.		CARPENTERS.	
	Num- ber.	Wages per month.	Num- ber.	Wages per month.	Num- ber.	Wages per month.	Num- ber.	Wages per month.	Num- ber.	Wages per month.
Total	177	\$8,870.00	455	\$11,612.58	140	\$3,517.00	18	\$445.00	32	\$1,670.00
Total for California	104	5,242.00	250	6,450.08	61	1,545.00	12	290.00	25	1,320.00
Total for Oregon	56	2,763.00	168	4,217.50	76	1,897.00	6	155.00	6	300.00
Total for Washington	17	865.00	37	945.00	3	75.00			1	50.00
California	104	5,242.00	250	6,450.08	61	1,545.00	12	290.00	25	1,320.00
Wilmington	1	90.00	11	140.08	1	20.00				
San Francisco	103	5,152.00	246	6,310.00	60	1,525.00	12	290.00	25	1,320.00
Humboldt										
Oregon	56	2,763.00	168	4,217.50	76	1,897.00	6	155.00	6	300.00
Southern Oregon										
Yaquina	1	75.00	5	125.00			1	25.00	1	50.00
Oregon	4	170.00	1	25.00	1	25.00			1	50.00
Willamette	51	2,518.00	162	4,067.50	75	1,872.00	5	130.00	4	200.00
Washington—Puget sound	17	865.00	37	945.00	3	75.00			1	50.00

STATISTICS OF TRANSPORTATION.

EARNINGS AND EXPENSES—Continued.

TABLE 13.—EMPLOYÉS AND WAGES IN DETAIL—Continued.

SAILING VESSELS.

CUSTOMS DISTRICTS.	Number of vessels.	TOTAL.		CAPTAINS.		FIRST MATES.		SECOND MATES, THIRD MATES, AND BOATSWAINS.		CLERKS AND PURSERS.		SURGEONS.	
		Number.	Wages per month.	Number.	Wages per month.	Number.	Wages per month.	Number.	Wages per month.	Number.	Wages per month.	Number.	Wages per month.
Total	647	4,571	\$209,957.64	647	\$53,804.51	399	\$20,789.90	294	\$13,200.00	1	\$100.00		
Total for California	577	3,848	178,274.43	577	47,942.40	339	17,657.40	242	10,880.00	1	100.00		
Total for Oregon	18	69	2,950.71	18	1,197.11	10	492.50	2	90.00				
Total for Washington	52	654	28,732.50	52	4,765.00	50	2,640.00	50	2,230.00				
California	577	3,848	178,274.43	577	47,942.40	339	17,657.40	242	10,880.00	1	100.00		
San Diego	7	20	892.75	7	405.00	2	65.00						
Wilmington	8	29	1,359.88	8	515.00	2	105.00	2	90.00				
San Francisco	549	3,699	171,407.00	549	45,840.00	323	16,885.00	228	10,265.00	1	100.00		
Humboldt	13	100	4,614.80	13	1,182.40	12	602.40	12	525.00				
Oregon	18	69	2,950.71	18	1,197.11	10	492.50	2	90.00				
Southern Oregon	1	7	360.00	1	100.00	1	50.00						
Oregon	14	30	1,415.71	14	797.11	7	332.50						
Willamette	3	32	1,175.00	3	300.00	2	110.00	2	90.00				
Washington—Puget sound	52	654	28,732.50	52	4,765.00	50	2,640.00	50	2,230.00				

[illegible]

TABLE 13.—EMPLOYÉS AND WAGES IN DETAIL—Continued

SAILING VESSELS—Continued.

[illegible]

STATISTICS OF TRANSPORTATION.

EARNINGS AND EXPENSES—Continued.

TABLE 14.—EMPLOYEES AND WAGES BY COAST TOTALS—AGGREGATE AND AVERAGE MONTHLY WAGES PAID TO EACH GRADE OF EMPLOYEES ON ALL VESSELS ENGAGED IN PASSENGER AND FREIGHT TRAFFIC ON THE PACIFIC COAST, EXCLUSIVE OF FERRYBOATS.

EMPLOYEES.	ALL CRAFT.			STEAMERS.			SAILING VESSELS.		
	Number employed.	Aggregate wages for one month.	Average monthly wages.	Number employed.	Aggregate wages for one month.	Average monthly wages.	Number employed.	Aggregate wages for one month.	Average monthly wages.
Total	10,396	\$521,502.86	\$50.16	5,825	\$311,545.22	\$53.48	4,571	\$209,957.64	\$45.93
Captains	1,001	95,175.97	95.08	354	41,271.46	116.59	647	53,904.51	83.31
First mates	685	39,573.77	57.77	286	18,783.87	65.68	399	20,789.90	52.11
Second mates, third mates, and boatswains	432	20,756.16	48.05	138	7,556.16	54.75	294	13,200.00	44.90
Clerks and pursers	189	12,652.50	66.94	188	12,552.50	66.77	1	100.00	100.00
Surgeons	2	110.00	55.00	2	110.00	55.00			
First engineers	353	35,798.54	101.41	353	35,798.54	101.41			
Second and third engineers	251	18,650.00	74.30	251	18,650.00	74.30			
Firemen and coal passers	657	29,847.26	45.43	657	29,847.26	45.43			
Wheelmen and pilots	134	9,509.17	70.96	128	9,204.17	71.91	6	305.00	50.83
Lookouts	24	1,039.50	43.31	19	844.50	44.45	5	195.00	39.00
Watchmen	160	6,702.73	41.89	153	6,407.73	41.88	7	295.00	42.14
Cooks and bakers	726	35,339.45	48.68	296	14,544.45	49.14	430	20,795.00	48.36
Cooks' assistants, pantrymen, and butchers	393	10,952.28	27.87	267	8,372.28	31.36	126	2,580.00	20.48
Seamen	3,331	127,817.33	38.37	800	35,090.10	43.86	2,531	92,727.23	36.64
Deck hands and porters	939	38,344.25	40.84	939	38,344.25	40.84			
Oilers and water tenders	172	8,053.37	46.82	172	8,053.37	46.82			
Stewards and storekeepers	192	9,440.00	49.17	177	8,870.00	50.11	15	570.00	38.00
Waiters	455	11,612.58	25.52	435	11,612.58	25.52			
Boys	163	3,858.00	23.67	140	3,517.00	25.12	23	341.00	14.83
Chambermaids and stewardesses	18	445.00	24.72	18	445.00	24.72			
Carpenters	119	5,825.00	48.95	32	1,670.00	52.19	87	4,155.00	47.76

TABLE 15.—FUEL ACCOUNT—AMOUNT AND VALUE OF THE COAL AND WOOD USED AS FUEL ON PASSENGER AND FREIGHT STEAMERS, FERRYBOATS, HARBOR TUGS, AND STEAM YACHTS OF THE PACIFIC COAST.

CUSTOMS DISTRICTS.	Total cost of fuel.	COAL.		WOOD.	
		Tons.	Cost.	Cords.	Cost.
Total	\$2,467,882.17	371,977	\$2,117,032.65	163,669	\$350,849.52
California	1,697,578.80	291,980	1,670,316.60	14,299	27,262.20
San Diego	10,499.40	1,842	10,499.40		
Wilmington	16,249.70	1,878	16,244.70	2	5.00
San Francisco	1,655,672.50	286,625	1,633,762.50	10,955	21,910.00
Humboldt	15,157.20	1,635	9,810.00	3,342	5,347.20
Oregon	548,186.25	54,743	340,649.25	95,643	207,537.00
Southern Oregon	5,616.10	3	22.50	3,496	5,593.60
Yaquina	26,181.90	2,945	22,087.50	2,559	4,094.40
Oregon	30,277.85	79	485.85	14,896	29,792.00
Willamette	486,110.40	51,716	318,053.40	74,692	168,057.00
Washington—Puget sound	222,117.12	25,254	106,066.80	53,727	116,050.32

TRANSPORTATION ON THE PACIFIC COAST.

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GENERAL OPERATIONS BY CLASSES.

TABLE 16.—PASSENGER AND FREIGHT VESSELS—NUMBER, TONNAGE, VALUE, TRAFFIC OPERATIONS, FINANCIAL ACCOUNT, AND DETAILS OF CREWS AND WAGES OF ALL VESSELS ENGAGED IN THE TRANSPORTATION OF PASSENGERS AND FREIGHT ON THE PACIFIC COAST, EXCLUSIVE OF FERRYBOATS.

ALL CRAFT.

CUSTOMS DISTRICTS.	Number.	Tonnage.	Value.	Trips.	Miles.	Freight moved. (Tons.)	Passengers carried.
Total	1,490	387,325	\$19,598,440	198,707	11,093,537	8,803,591	1,380,234

CUSTOMS DISTRICTS.	Gross earnings.	Expenses.	Net earnings.	Common seamen employed.	Average wages per month paid common seamen.	Number making ordinary crews.	Total number of men employed.	Total wages paid during year.
Total	\$18,112,955.63	\$14,898,141.32	\$3,214,814.31	3,331	\$38.37	10,396	30,332	\$5,212,639.20

STEAMERS.

CUSTOMS DISTRICTS.	Number.	Tonnage.	Value.	Trips.	Miles.	Freight moved. (Tons.)	Passengers carried.
Total	354	129,491	\$12,660,755	159,721	5,586,182	5,727,168	1,380,234
California.....	147	73,833	7,657,705	23,134	2,377,030	2,684,363	211,171
Wilmington	5	756	149,500	410	48,752	144,726	12,305
San Francisco	136	72,626	7,479,705	19,218	2,304,871	2,420,955	173,906
Humboldt	6	451	28,500	3,506	23,407	118,682	24,960
Oregon	114	45,016	4,027,200	104,542	1,588,444	891,784	775,665
Southern Oregon	12	651	48,300	6,522	96,566	119,499	32,585
Yaquina.....	7	1,077	125,000	2,928	67,050	31,491	14,597
Oregon	33	2,897	247,600	13,692	276,076	242,130	98,006
Willamette	62	40,391	3,606,300	81,400	1,148,752	498,064	630,477
Washington—Puget sound	93	10,642	975,850	32,045	1,620,708	2,151,021	393,398

CUSTOMS DISTRICTS.	Gross earnings.	Expenses.	Net earnings.	Common seamen employed.	Average wages per month paid common seamen.	Number making ordinary crews.	Total number of men employed.	Total wages paid during year.
Total	\$11,200,131.71	\$9,495,771.45	\$1,704,360.26	800	\$43.86	5,825	15,807	\$2,924,205.19
California.....	6,507,530.74	5,402,795.34	1,104,735.40	659	44.38	3,342	9,866	1,703,263.70
Wilmington	61,347.92	60,425.69	922.23	4	45.00	49	82	25,826.45
San Francisco	6,390,204.61	5,295,690.96	1,094,513.65	655	44.38	3,270	9,740	1,655,683.25
Humboldt	55,978.21	46,678.69	9,299.52			23	44	21,754.00
Oregon	3,580,464.66	3,233,109.34	347,355.32	124	41.97	1,738	4,041	832,502.84
Southern Oregon	49,246.61	36,686.55	12,560.06			42	56	25,984.00
Yaquina.....	84,463.34	99,394.85	α14,931.51	6	45.00	60	185	36,153.31
Oregon	199,086.11	154,522.80	44,563.31	11	37.73	168	499	88,927.37
Willamette	3,247,668.60	2,942,505.14	305,163.46	107	42.24	1,468	3,301	681,438.16
Washington—Puget sound	1,112,136.31	859,866.77	252,269.54	17	37.36	745	1,900	388,438.65

SAILING VESSELS.

CUSTOMS DISTRICTS.	Number.	Tonnage.	Value.	Trips.	Miles.	Freight moved. (Tons.)	Passengers carried.
Total	647	194,478	\$6,112,340	38,986	5,507,355	2,761,826	
California.....	577	150,825	5,236,900	36,299	4,916,486	2,401,593	
San Diego	7	222	20,350	66	15,274	2,300	
Wilmington	8	588	27,400	229	26,436	7,571	
San Francisco	549	146,924	4,948,150	35,168	4,772,113	2,351,598	
Humboldt	13	3,091	241,000	836	102,663	40,124	

α Deficit.

STATISTICS OF TRANSPORTATION.

GENERAL OPERATIONS BY CLASSES—Continued.

TABLE 16.—PASSENGER AND FREIGHT VESSELS—Continued.

SAILING VESSELS—Continued.

CUSTOMS DISTRICTS.	Number.	Tonnage.	Value.	Trips.	Miles.	Freight moved. (Tons.)	Passengers carried.
Oregon	18	2,022	\$53,385	1,608	59,062	34,050	.....
Southern Oregon	1	90	8,000	21	8,920	2,916	.....
Oregon	14	220	10,350	1,564	19,742	21,097	.....
Willamette	3	1,712	35,035	23	30,400	10,037	.....
Washington—Puget sound	52	41,631	822,055	1,079	531,807	326,183	.....

CUSTOMS DISTRICTS.	Gross earnings.	Expenses.	Net earnings.	Common seamen employed.	Average wages per month paid common seamen.	Number making ordinary crews.	Total number of men employed.	Total wages paid during year.
Total	\$6,912,823.92	\$5,402,369.87	\$1,510,454.05	2,531	\$36.64	4,571	14,525	\$2,288,434.01
California	5,884,740.48	4,566,343.25	1,318,397.23	2,126	36.46	3,848	12,627	1,966,774.60
San Diego	10,640.00	9,552.10	1,087.90	6	40.46	20	33	4,143.73
Wilmington	25,533.54	24,182.89	1,350.65	14	35.71	29	60	13,201.00
San Francisco	5,747,932.87	4,453,288.01	1,294,644.86	2,054	36.51	3,699	12,280	1,904,194.72
Humboldt	100,634.07	79,320.25	21,313.82	52	34.04	100	254	45,235.15
Oregon	81,558.05	54,783.41	26,774.64	27	27.82	69	103	27,028.75
Southern Oregon	6,387.00	5,936.00	451.00	4	40.00	7	7	3,500.00
Oregon	19,375.74	11,303.52	8,072.22	6	27.68	30	43	10,388.75
Willamette	55,795.81	37,543.89	18,251.42	17	25.00	32	53	13,140.00
Washington—Puget sound	946,525.39	781,243.21	165,282.18	378	38.29	654	1,795	294,630.66

UNRIGGED CRAFT.

CUSTOMS DISTRICTS.	Number.	Tonnage.	Value.	Trips.	Miles.	Freight moved. (Tons.)	Passengers carried.
Total	489	63,356	\$825,345	.....	.....	314,597	.....
San Diego, California	28	1,966	12,975	.....	.....	33,064	.....
Wilmington, California	33	3,935	62,000	.....	.....	(a)	.....
San Francisco, California	146	27,082	506,700	.....	.....	27,000	.....
Humboldt, California	22	2,290	19,525	.....	.....	2,900	.....
Southern Oregon, Oregon	93	3,026	20,690	.....	.....	55,860	.....
Yaquina, Oregon	3	40	200	.....	.....	(a)	.....
Oregon, Oregon	28	1,491	13,810	.....	.....	(a)	.....
Willamette, Oregon	34	11,002	109,400	.....	.....	32,030	.....
Puget sound, Washington	102	12,524	80,045	.....	.....	163,743	.....

CUSTOMS DISTRICTS.	Gross earnings.	Expenses.	Net earnings.	Common seamen employed.	Average wages per month paid common seamen.	Number making ordinary crews.	Total number of men employed.	Total wages paid during year.
Total								
San Diego, California								
Wilmington, California								
San Francisco, California								
Humboldt, California	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Southern Oregon, Oregon								
Yaquina, Oregon								
Oregon, Oregon								
Willamette, Oregon								
Puget sound, Washington								

a Included in steamers.

GENERAL OPERATIONS BY CLASSES—Continued.

TABLE 17.—FERRYBOATS—NUMBER, TONNAGE, VALUE, TRAFFIC OPERATIONS, FINANCIAL ACCOUNT, AND DETAILS OF CREWS AND WAGES OF FERRYBOATS.

CUSTOMS DISTRICTS.	Number.	Tonnage.	Value.	Trips.	Miles.	Freight moved. (Tons.)	Passengers carried.
Total	38	24, 630	\$979, 300	473, 663	1, 179, 978	14, 772	2, 639, 095
California.....	20	22 551	816, 000	176, 783	946, 092	20	614, 006
San Diego	3	488	31, 500	39, 158	43, 867	20	545, 558
San Francisco	17	22, 063	784, 500	137, 625	902, 225		68, 448
Oregon.....	16	1, 783	118, 300	284, 554	200, 991	13, 893	1, 922, 838
Southern Oregon	1	20	1 200	184	1, 656		1, 275
Yaquina.....	1	16	900	1, 072	1, 108	92	1, 125
Willamette.....	14	1, 747	116, 200	283, 298	198, 227	13, 801	1, 920, 438
Washington—Puget sound.....	2	296	45, 000	12, 626	32, 895	859	102, 251

CUSTOMS DISTRICTS.	Gross earnings.	Expenses.	Net earnings.	Common seamen employed.	Average wages per month paid common seamen.	Number making ordinary crews.	Total number of men employed.	Total wages paid during year.
Total	\$994, 475 95	\$964, 904. 32	\$29, 571. 63	126	\$59. 00	478	1, 150	\$395, 157
California.....	848, 798. 19	846, 558. 39	2, 239. 80	126	59. 00	397	1, 011	330, 315
San Diego.....	31, 379. 72	31, 684. 92	305. 20			18	29	8, 575
San Francisco	817, 418. 47	814, 873. 47	2, 545. 00	126	59. 00	379	982	321, 740
Oregon	127, 010. 68	100, 000. 34	27, 010. 34			71	119	54, 814
Southern Oregon	1, 170. 00	943. 00	227. 00			3	6	800
Yaquina.....	600. 00	420. 00	180. 00			1	1	300
Willamette	125, 240. 68	98, 637. 34	26, 603. 34			67	112	53, 714
Washington—Puget sound.....	18, 667. 08	18, 345. 59	321. 49			10	20	10, 028

a Deficit.

TABLE 18.—FISHING VESSELS—NUMBER, TONNAGE, OPERATIONS, FINANCIAL ACCOUNT, AND DETAILS OF CREWS AND WAGES OF FISHING VESSELS NOT ENGAGED IN THE TRANSPORTATION OF FISHERY PRODUCTS AS FREIGHT. (a)

STEAMERS AND SAILING VESSELS.

PORTS.	Num- ber.	Ton- nage.	Value.	Trips.	Miles.	Gross earnings.	Expenses.	Net earnings.	Common seamen employed.	Average wages per month paid common seamen.	Number making ordinary crews.	Total number of men employed.	Total wages paid during year.
Total	84	10, 715	\$692, 455	1, 183	406, 638	\$719, 872. 25	\$697, 836. 45	\$22, 035. 80	790	\$34. 97	866	1, 485	\$247, 028. 56

STEAMERS.

Total	24	4, 343	411, 500	857	117, 400	277, 308. 91	307, 796. 52	630, 487. 61	190	40. 79	136	532	114, 834. 93
San Francisco, California	14	3, 960	341, 000	627	104, 350	241, 440. 46	275, 746. 67	634, 306. 21	173	40. 35	95	364	99, 158. 93
Yaquina, Oregon.....	1	106	25, 000	4	1, 400	19, 350. 00	15, 531. 40	3, 818. 60	8	45. 00	13	117	5, 670. 00
Oregon, Oregon.....	5	185	24, 000	26	6, 650	12, 192. 00	12, 192. 00		5	50. 00	12	32	6, 120. 00
Willamette, Oregon.....	3	79	20, 000	200	5, 000	4, 326. 45	4, 326. 45		3	41. 67	13	16	3, 571. 00
Puget sound, Washington	1	13	1, 500	(c)	(c)	(c)	(c)	(c)	1	35. 00	3	3	315. 00

SAILING VESSELS.

Total	60	6, 372	280, 955	326	289, 238	442, 563. 34	390, 039. 93	52, 523. 41	600	33. 13	730	953	132, 193. 63
San Diego, California	2	31	2, 625	34	10, 432	6, 810. 00	2, 155. 70	4, 654. 30	3	27. 50	7	7	1, 465. 25
San Francisco, California	40	5, 866	239, 900	75	233, 476	404, 077. 40	351, 987. 22	52, 090. 18	513	33. 85	614	810	107, 178. 72
Oregon, Oregon.....	10	137	12, 730	210	7, 610	6, 087. 95	4, 665. 75	1, 422. 20	13	23. 58	19	19	2, 912. 00
Puget sound, Washington	8	338	25, 700	7	37, 720	25, 587. 99	31, 231. 26	65, 643. 27	71	29. 85	90	117	20, 637. 66

a Including whalers and sealers.

b Deficit.

c Not reported.

GENERAL OPERATIONS BY CLASSES—Continued.

TABLE 19.—HARBOR TUGS—NUMBER, TONNAGE, VALUE, FINANCIAL ACCOUNT, AND DETAILS OF CREWS AND WAGES OF HARBOR TUGS AND OTHER FLOATING CHANNEL PROPERTY.

CUSTOMS DISTRICTS.	Number.	Tonnage.	Value.	Gross earnings.	Expenses.	Net earnings.	Common seamen employed.	Average wages per month paid common seamen.	Number making ordinary crews.	Total number of men employed.	Total wages paid during year.
Total	70	6,109	\$1,120,800	\$765,305.72	\$678,220.48	\$87,085.24	25	\$42.59	374	573	\$247,630.49
California	52	4,279	833,500	626,727.37	544,108.54	82,618.83	21	42.13	274	352	191,706.30
San Diego	4	294	28,500	11,127.75	14,300.12	3,172.37	.....	.....	14	19	6,778.15
Wilmington	1	89	22,000	3,058.22	3,151.15	292.93	.....	.....	7	15	1,243.15
San Francisco	44	3,626	732,000	566,031.40	486,103.66	79,927.74	19	41.30	230	295	166,950.00
Humboldt	3	270	51,000	46,510.00	40,553.61	5,956.39	2	50.00	23	23	16,735.00
Oregon	9	484	108,300	28,265.54	23,431.80	4,833.74	2	50.00	35	45	17,323.56
Southern Oregon	2	100	21,100	6,082.72	4,775.81	1,306.91	.....	.....	7	7	3,309.66
Yaquina	2	126	44,500	14,814.29	12,914.29	1,900.00	.....	.....	11	15	9,401.40
Oregon	1	14	2,000	1,200.00	534.20	665.80	1	60.00	3	4	390.00
Willamette	4	244	40,700	6,168.53	5,207.50	961.03	1	40.00	14	17	4,222.50
Washington—Puget sound ..	9	1,346	179,000	110,312.81	110,680.14	267.33	2	40.00	65	176	38,600.63

a Deficit.

TABLE 20.—PILOT BOATS—NUMBER, TONNAGE, VALUE, EXPENSE ACCOUNT, AND DETAILS OF CREWS AND WAGES OF PILOT BOATS.

CUSTOMS DISTRICTS.	Number.	Tonnage.	Value.	Expenses.	Common seamen employed.	Average wages per month paid common seamen.	Number making ordinary crews.	Total number of men employed.	Total wages paid during year.
Total	9	418	\$49,700	\$35,706.73	14	\$33.77	31	71	\$16,310
San Diego, California	1	20	3,000	2,750.00	1	22.75	3	3	2,250
Wilmington, California	1	8	2,500	1,750.00	1	25.00	3	3	1,440
San Francisco, California	4	230	24,500	24,236.72	9	35.00	17	57	8,820
Oregon, Oregon	2	141	19,000	5,468.36	2	40.00	5	5	2,760
Puget sound, Washington	1	19	700	1,501.65	1	30.00	3	3	1,040

TABLE 21.—YACHTS AND PLEASURE BOATS—NUMBER, TONNAGE, VALUE, AND DETAILS OF CREWS AND WAGES OF YACHTS AND PLEASURE BOATS.

STEAMERS AND SAILING VESSELS.

CUSTOMS DISTRICTS.	Number.	Tonnage.	Value.	Common seamen employed.	Average wages per month paid common seamen.	Number making ordinary crews.	Total number of men employed.	Total wages paid during year.
Total	28	675	\$75,800	16	\$36.68	36	45	\$8,685.44

STEAMERS.

Total	3	63	6,500	.....	.....	5	6	234.00
San Diego, California	1	18	2,500	.....	.....	2	2	34.00
Puget sound, Washington	2	45	4,000	.....	.....	3	4	200.00

SAILING VESSELS.

Total	25	612	69,300	16	36.68	31	39	8,451.44
San Diego, California	7	101	8,500	4	25.00	8	13	930.00
Wilmington, California	4	98	7,500	2	35.00	6	7	1,680.00
San Francisco, California	13	405	52,800	9	42.25	15	17	5,528.00
Puget sound, Washington	1	8	500	1	36.68	2	2	313.44

TRANSPORTATION ON THE PACIFIC COAST.

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GENERAL OPERATIONS BY CLASSES—Continued.

TABLE 22.—NO TRAFFIC REPORT—NUMBER, TONNAGE, AND VALUE OF ALL STEAMERS AND SAILING VESSELS OVER FIVE TONS REGISTERED OR OWNED ON THE PACIFIC COAST IN 1889 FOR WHICH NO TRAFFIC REPORT WAS RECEIVED.

STEAMERS AND SAILING VESSELS.

CUSTOMS DISTRICTS.	TOTAL.			OUT OF COMMISSION.			OTHERWISE NOT REPORTED ON. (a)		
	Number.	Tonnage.	Value.	Number.	Tonnage.	Value.	Number.	Tonnage.	Value.
Total	123	12,067	\$550,875	74	8,312	\$410,400	49	3,755	\$140,475

STEAMERS.

Total	42	5,867	347,600	33	5,416	303,100	9	451	44,500
California	17	2,026	142,200	15	1,976	131,200	2	50	11,000
Wilmington	4	88	17,000	4	88	17,000			
San Francisco	12	1,874	122,200	10	1,824	111,200	2	50	11,000
Humboldt	1	64	3,000	1	64	3,000			
Oregon	17	2,975	169,400	13	2,685	141,400	4	290	28,000
Yaquina	2	956	92,000	2	956	92,000			
Oregon	2	76	10,500	1	19	500	1	57	10,000
Willamette	13	1,943	66,900	10	1,710	48,900	3	233	18,000
Washington—Puget sound	8	866	36,000	5	755	30,500	3	111	5,500

SAILING VESSELS.

Total	81	6,200	203,275	41	2,896	107,300	40	3,304	95,975
California	48	5,362	175,750	22	2,632	94,250	26	2,730	81,500
San Diego	4	87	2,500	2	44	1,000	2	43	1,500
San Francisco	43	5,094	168,750	20	2,588	93,250	23	2,506	75,500
Humboldt	1	181	4,500				1	181	4,500
Oregon	13	476	11,950	8	142	6,650	5	334	5,300
Oregon	10	192	8,000	7	129	6,500	3	63	1,500
Willamette	3	284	3,950	1	13	150	2	271	3,800
Washington—Puget sound	20	362	15,575	11	122	6,400	9	240	9,175

a Lost prior to or during 1889, sold to foreign owners, or untraceable.

GENERAL OPERATIONS BY CLASSES—Continued.

TABLE 23.—SUMMARY—NUMBER, TONNAGE, VALUE, TRAFFIC OPERATIONS, FINANCIAL ACCOUNT, AND DETAILS OF CREWS AND WAGES OF ALL VESSELS OF EVERY CLASS OF OCCUPATION OVER FIVE TONS REGISTERED OR OWNED ON THE PACIFIC COAST IN 1889, GROUPED BY DISTRICTS.

ALL CRAFT.

CUSTOMS DISTRICTS.	Number.	Tonnage.	Value.	Trips.	Miles.	Freight moved. (Tons.)	Passengers carried.
Total steam, sail, and unriggered.....	1,842	441,939	\$23,067,370	673,853	12,680,153	8,818,363	4,019,329

CUSTOMS DISTRICTS.	Gross earnings.	Expenses.	Net earnings.	Common seamen employed.	Average wages per month paid common seamen.	Number making ordinary crews.	Total number of men employed.	Total wages paid during year.
Total steam, sail, and unriggered.....	\$20,628,316.28	\$17,274,809.30	\$3,353,506.98	4,302	\$38.36	12,181	33,656	\$6,127,450.69

STEAMERS.

CUSTOMS DISTRICTS.	Number.	Tonnage.	Value.	Trips.	Miles.	Freight moved. (Tons.)	Passengers carried.
Total	531	170,503	\$15,526,455	634,541	6,883,560	5,741,940	4,019,329
San Diego, California.....	8	800	62,500	39,158	43,867	20	545,558
Ferry.....	3	488	31,500	39,158	43,867	20	545,558
Harbor tugs	4	294	28,500				
Yachts	1	18	2,500				
Wilmington, California.....	10	933	188,500	410	48,752	144,726	12,305
Freight and passenger.....	5	756	149,500	410	48,752	144,726	12,305
Harbor tugs	1	89	22,000				
No traffic report	4	88	17,000				
San Francisco, California.....	223	104,149	9,459,405	157,470	3,311,446	2,420,955	242,354
Freight and passenger.....	136	72,626	7,479,705	19,218	2,304,871	2,420,955	173,906
Ferry	17	22,063	784,500	137,625	902,225		68,448
Fish	14	3,960	341,000	627	104,350		
Harbor tugs	44	3,626	732,000				
No traffic report	12	1,874	122,200				
Humboldt, California.....	10	785	82,500	3,506	23,407	118,682	24,960
Freight and passenger.....	6	451	28,500	3,506	23,407	118,682	24,960
Harbor tugs	3	270	51,000				
No traffic report	1	64	5,000				
Southern Oregon, Oregon.....	15	771	70,600	6,706	98,222	119,499	33,860
Freight and passenger.....	12	651	48,300	6,522	96,566	119,499	32,585
Ferry.....	1	20	1,200	184	1,656		1,275
Harbor tugs	2	100	21,100				
Yaquina, Oregon	13	2,281	287,400	4,004	69,558	31,583	15,722
Freight and passenger	7	1,077	125,000	2,928	67,050	31,491	14,597
Ferry.....	1	16	900	1,072	1,108	92	1,125
Fish	1	106	25,000	4	1,400		
Harbor tugs	2	126	44,500				
No traffic report	2	956	92,000				
Oregon, Oregon.....	41	3,172	284,100	13,718	282,726	242,130	98,006
Freight and passenger.....	33	2,897	247,600	13,692	276,076	242,130	98,006
Fish	5	185	24,000	26	6,650		
Harbor tugs	1	14	2,000				
No traffic report	2	76	10,500				
Willamette, Oregon	96	44,404	3,850,100	364,898	1,351,979	512,465	2,550,915
Freight and passenger.....	62	40,391	3,606,300	81,400	1,148,752	498,664	630,477
Ferry.....	14	1,747	116,200	283,298	198,227	13,801	1,920,438
Fish	3	79	20,000	200	5,000		
Harbor tugs	4	244	40,700				
No traffic report	13	1,943	66,900				

GENERAL OPERATIONS BY CLASSES—Continued.

TABLE 23.—SUMMARY—Continued.

STEAMERS—Continued.

CUSTOMS DISTRICTS.	Number.	Tonnage.	Value.	Trips.	Miles.	Freight moved. (Tons.)	Passengers carried.
Puget sound, Washington	115	13,208	\$1,241,350	44,671	1,653,603	2,151,880	495,649
Freight and passenger	93	10,642	975,850	32,045	1,620,708	2,151,021	393,398
Ferry	2	296	45,000	12,626	32,895	859	102,251
Fish	1	13	1,500	(a)	(a)		
Harbor tugs	9	1,346	179,000				
Yachts	2	45	4,000				
No traffic report	8	860	36,000				

CUSTOMS DISTRICTS.	Gross earnings.	Expenses.	Net earnings.	Common seamen employed.	Average wages per month paid common seamen.	Number making ordinary crews.	Total number of men employed.	Total wages paid during year.
Total	\$13,237,222.29	\$11,446,692.77	\$1,790,529.52	1,141	\$44.99	66,818	18,068	\$3,682,061.61
San Diego, California	42,507.47	45,985.04	c3,477.57			34	50	15,387.15
Ferry	31,379.72	31,684.92	c305.20			18	29	8,575.00
Harbor tugs	11,127.75	14,300.12	c3,172.37			14	19	6,778.15
Yachts						2	2	34.00
Wilmington, California	64,406.14	63,576.84	829.30	4	45.00	56	97	27,069.60
Freight and passenger	61,347.92	60,425.69	922.23	4	45.00	49	82	25,826.45
Harbor tugs	3,058.22	3,151.15	c92.93			7	15	1,243.15
San Francisco, California	8,015,094.94	6,872,414.76	1,142,680.18	973	45.50	3,974	11,381	2,243,532.18
Freight and passenger	6,390,204.61	5,295,690.96	1,094,513.65	655	44.38	3,270	9,740	1,655,683.25
Ferry	817,418.47	814,873.47	2,545.00	126	59.00	379	982	321,740.00
Fish	241,440.46	275,746.67	c34,306.21	173	40.35	95	364	99,158.93
Harbor tugs	566,031.40	486,103.66	79,927.74	19	41.30	230	295	166,950.00
Humboldt, California	102,488.21	87,232.30	15,255.91	2	50.00	46	67	38,489.00
Freight and passenger	55,978.21	46,678.69	9,299.52			23	44	21,754.00
Harbor tugs	46,510.00	40,553.61	5,956.39	2	50.00	23	23	16,735.00
Southern Oregon, Oregon	56,499.33	42,405.36	14,093.97			52	69	30,093.66
Freight and passenger	49,246.61	36,686.55	12,560.06			42	56	25,984.00
Ferry	1,170.00	943.00	227.00			3	6	800.00
Harbor tugs	6,082.72	4,775.81	1,306.91			7	7	3,309.66
Yaquina, Oregon	119,227.63	128,260.54	c9,032.91	14	45.00	85	318	51,524.71
Freight and passenger	84,463.34	99,394.85	c14,931.51	6	45.00	60	185	36,153.31
Ferry	600.00	420.00	180.00			1	1	300.00
Fish	19,350.00	15,531.40	3,818.60	8	45.00	13	117	5,670.00
Harbor tugs	14,814.29	12,914.29	1,900.00			11	15	9,401.40
Oregon, Oregon	212,478.11	167,249.00	45,229.11	17	42.65	183	537	95,437.37
Freight and passenger	199,086.11	154,522.80	44,563.31	11	37.73	168	499	88,927.37
Fish	12,192.00	12,192.00		5	50.00	12	32	6,120.00
Harbor tugs	1,200.00	534.20	665.80	1	60.00	3	6	390.00
Willamette, Oregon	3,383,404.26	3,050,676.43	332,727.83	111	42.20	1,562	3,446	742,945.66
Freight and passenger	3,247,668.60	2,942,505.14	305,163.46	107	42.24	1,468	3,301	681,438.16
Ferry	125,240.68	98,637.34	26,603.34			67	112	53,714.00
Fish	4,326.45	4,326.45		3	41.67	13	16	3,571.00
Harbor tugs	6,168.53	5,207.50	961.03	1	40.00	14	17	4,222.50
Puget sound, Washington	1,241,116.20	988,892.50	252,223.70	20	37.51	826	2,103	437,582.28
Freight and passenger	1,112,136.31	859,866.77	252,269.54	17	37.36	745	1,900	388,438.65
Ferry	18,667.08	18,345.59	321.49			10	20	10,028.00
Fish	(a)	(a)	(a)	1	35.00	3	3	315.00
Harbor tugs	110,312.81	110,680.14	c367.33	2	40.00	65	176	38,600.63
Yachts						3	4	200.00

a Not reported.

b Includes unrigged.

c Deficit.

STATISTICS OF TRANSPORTATION.

GENERAL OPERATIONS BY CLASSES—Continued.

TABLE 23.—SUMMARY—Continued.

SAILING VESSELS.

CUSTOMS DISTRICTS.	Number.	Tonnage.	Value	Trips.	Miles.	Freight moved. (Tons.)	Passengers carried.
Total.....	822	208,080	\$6,715,570	39,812	5,796,593	2,761,826	
San Diego, California.....	21	461	36,975	100	25,706	2,300	
Freight.....	7	222	20,350	66	15,274	2,300	
Fish.....	2	31	2,625	34	10,432		
Pilot boats.....	1	20	3,000				
Yachts.....	7	101	8,500				
No traffic report.....	4	87	2,500				
Wilmington, California.....	13	694	37,400	229	26,436	7,571	
Freight.....	8	588	27,400	229	26,436	7,571	
Pilot boats.....	1	8	2,500				
Yachts.....	4	98	7,500				
San Francisco, California.....	649	158,519	5,434,100	35,243	5,005,589	2,351,598	
Freight.....	549	146,924	4,948,150	35,168	4,772,113	2,351,598	
Fish.....	40	5,866	239,900	75	233,476		
Pilot boats.....	4	230	24,500				
Yachts.....	13	405	52,800				
No traffic report.....	43	5,094	168,750				
Humboldt, California.....	14	3,272	245,500	836	102,663	40,124	
Freight.....	13	3,091	241,000	836	102,663	40,124	
No traffic report.....	1	181	4,500				
Southern Oregon, Oregon:							
Freight.....	1	90	8,000	21	8,920	2,916	
Oregon, Oregon.....	36	690	50,080	1,774	27,352	21,097	
Freight.....	14	220	10,350	1,564	19,742	21,097	
Fish.....	10	137	12,730	210	7,610		
Pilot boats.....	2	141	19,000				
No traffic report.....	10	192	8,000				
Willamette, Oregon.....	6	1,996	38,985	23	30,400	10,037	
Freight.....	3	1,712	35,035	23	30,400	10,037	
No traffic report.....	3	284	3,950				
Puget sound, Washington.....	82	42,358	864,530	1,086	569,527	326,183	
Freight.....	52	41,631	822,055	1,079	531,807	326,183	
Fish.....	8	338	25,700	7	37,720		
Pilot boats.....	1	19	700				
Yachts.....	1	8	500				
No traffic report.....	20	362	15,575				

CUSTOMS DISTRICTS.	Gross earnings.	Expenses.	Net earnings.	Common seamen employed.	Average wages per month paid common seamen.	Number making ordinary crews.	Total number of men employed.	Total wages paid during year.
Total.....	\$7,391,093.99	\$5,828,116.53	\$1,562,977.46	3,161	\$35.96	5,363	15,588	\$2,445,389.08
San Diego, California.....	20,200.00	14,457.80	5,742.20	14	32.00	38	56	8,788.98
Freight.....	10,640.00	9,552.10	1,087.90	6	40.46	20	33	4,143.73
Fish.....	6,810.00	2,155.70	4,654.30	3	27.50	7	7	1,465.25
Pilot boats.....	2,750.00	2,750.00		1	22.75	3	3	2,250.00
Yachts.....				4	25.00	8	13	930.00
Wilmington, California.....	27,283.54	25,932.89	1,350.65	17	35.00	38	70	16,321.00
Freight.....	25,533.54	24,182.89	1,350.65	14	35.71	29	60	13,201.00
Pilot boats.....	2,750.00	1,750.00		1	25.00	3	3	1,440.00
Yachts.....				2	35.00	6	7	1,680.00

a Gross earnings includes the boats' earnings only; professional earnings of the pilots are not included.

TRANSPORTATION ON THE PACIFIC COAST.

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GENERAL OPERATIONS BY CLASSES—Continued.

TABLE 23.—SUMMARY—Continued.

SAILING VESSELS—Continued.

CUSTOMS DISTRICTS.	Gross earnings.	Expenses.	Net earnings.	Common seamen employed.	Average wages per month paid common seamen.	Number making ordinary crews.	Total number of men employed.	Total wages paid during year.
San Francisco, California	\$6,176,246.99	\$4,829,511.95	\$1,346,735.04	2,585	\$36.00	4,345	13,164	\$2,025,721.44
Freight.....	5,747,932.87	4,453,288.01	1,294,644.86	2,054	36.51	3,699	12,280	1,904,194.72
Fish.....	404,077.40	351,987.22	52,090.18	513	33.85	614	810	107,178.72
Pilot boats	24,236.72	24,236.72		11	35.00	17	57	8,820.00
Yachts				9	42.25	15	17	5,528.00
Humboldt, California:								
Freight.....	100,634.07	79,320.25	21,313.82	52	34.04	100	254	45,235.15
Southern Oregon, Oregon:								
Freight.....	6,387.00	5,936.00	451.00	4	40.00	7	7	3,500.00
Oregon, Oregon	30,932.05	21,437.63	9,494.42	21	26.50	54	67	16,060.75
Freight.....	19,375.74	11,303.52	8,072.22	6	27.68	30	43	10,388.75
Fish.....	6,087.95	4,665.75	1,422.20	13	23.88	19	19	2,912.00
Pilot boats	5,468.36	5,468.36		2	40.00	5	5	2,760.00
Willamette, Oregon:								
Freight.....	55,795.31	37,543.89	18,251.42	17	25.00	32	53	13,140.00
Puget sound, Washington	973,615.03	813,976.12	159,638.91	451	36.94	749	1,917	316,621.76
Freight.....	946,525.39	781,243.21	165,282.18	378	38.29	654	1,795	294,630.66
Fish.....	25,587.99	31,231.26	5,643.27	71	29.85	90	117	20,637.66
Pilot boats	1,501.65	1,501.65		1	30.00	3	3	1,040.00
Yachts				1	36.68	"	2	313.44

UNRIGGED CRAFT.

CUSTOMS DISTRICTS.	Number.	Tonnage.	Value.	Trips.	Miles.	Freight moved. (Tons.)	Passengers carried.
Total	489	63,356	\$825,345			314,597	
San Diego, California	28	1,966	12,975			33,064	
Wilmington, California	33	3,935	62,000			(c)	
San Francisco, California	146	27,082	506,700			27,000	
Humboldt, California	22	2,290	19,525			2,900	
Southern Oregon, Oregon	93	3,026	20,690			55,860	
Yaquina, Oregon	3	40	200			(c)	
Oregon, Oregon	28	1,491	13,810			(c)	
Willamette, Oregon	34	11,002	109,400			32,030	
Puget sound, Washington	102	12,524	80,045			163,743	

CUSTOMS DISTRICTS.	Gross earnings.	Expenses.	Net earnings.	Common seamen employed.	Average wages per month paid common seamen.	Number making ordinary crews.	Total number of men employed.	Total wages paid during year.
Total								
San Diego, California								
Wilmington, California								
San Francisco, California								
Humboldt, California	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)
Southern Oregon, Oregon								
Yaquina, Oregon								
Oregon, Oregon								
Willamette, Oregon								
Puget sound, Washington								

a Gross earnings includes the boats' earnings only; professional earnings of the pilots are not included

b Deficit.

c Included in steamers.

STATISTICS OF TRANSPORTATION.

COMPARATIVE STATISTICS.

TABLE 24.—STEAMERS AND UNRIGGED CRAFT IN 1880 AND 1889—NUMBER, TONNAGE, AND VALUE OF STEAMERS AND UNRIGGED CRAFT IN 1880 AND 1889, AS REPORTED BY THE TENTH AND ELEVENTH CENSUSES.

STATES AND YEARS.	ALL CRAFT.			STEAMERS.			UNRIGGED CRAFT.		
	Number.	Tonnage.	Value.	Number.	Tonnage.	Value.	Number.	Tonnage.	Value.
Total	1880.. 534	125,090.48	\$6,620,980	319	97,004.88	\$6,477,500	215	28,085.60	\$143,480
	1889.. 1,020	233,859.00	16,351,800	531	170,503.00	15,526,455	489	63,356.00	825,345
California	1880.. 266	73,507.80	3,873,380	a178	58,828.80	3,763,200	88	14,679.00	110,180
	1889.. 480	141,940.00	10,394,105	251	106,067.00	9,792,905	229	35,273.00	601,200
Oregon	1880.. 198	43,657.54	2,207,700	89	31,370.94	2,177,000	109	12,286.60	30,700
	1889.. 323	66,187.00	4,636,300	165	50,623.00	4,492,200	158	15,559.00	144,100
Washington	1880.. 70	7,925.14	539,900	52	6,805.14	537,300	18	1,120.00	2,600
	1889.. 217	25,732.00	1,321,395	115	13,208.00	1,241,350	102	12,524.00	80,045

a Exclusive of Pacific Mail interests owned in New York.

TABLE 25.—STEAMERS BY CLASSES IN 1880 AND 1889—NUMBER, TONNAGE, AND VALUE OF STEAMERS IN 1880 AND 1889, GIVEN BY CLASSES, AS REPORTED BY THE TENTH AND ELEVENTH CENSUSES.

CLASSES AND YEARS.	Number.	Tonnage.	Value.
Total	1880.. 319	97,004.88	\$6,477,500
	1889.. 531	170,503.10	15,526,455
Passenger and freight	1880.. 224	70,392.43	4,414,900
	1889.. 354	129,490.38	12,660,755
Ferry	1880.. 32	21,993.99	1,429,100
	1889.. 38	24,629.26	979,300
Towing and harbor	1880.. 52	4,558.49	614,600
	1889.. 70	6,109.51	1,120,800
Miscellaneous	1880.. 11	59.97	18,900
	1889.. 69	10,273.95	765,600

TABLE 26.—GROSS EARNINGS OF STEAMERS IN 1880 AND 1889—GROSS EARNINGS OF STEAMERS OPERATING IN 1880 AND 1889, TOGETHER WITH THE AMOUNT PAID OUT IN WAGES DURING THOSE YEARS, AS REPORTED BY THE TENTH AND ELEVENTH CENSUSES.

STATES AND YEARS.	Gross earnings.	Paid in wages.
Total	1880.. \$6,362,770	\$1,953,451
	1889.. 13,237,222	3,682,062
California	1880.. 4,011,084	1,158,200
	1889.. 8,224,497	2,324,478
Oregon	1880.. 1,983,703	602,576
	1889.. 3,771,609	920,002
Washington	1880.. 367,983	192,675
	1889.. 1,241,116	437,582

TABLE 27.—STEAMERS' CREWS AND WAGES IN 1880 AND 1889—NUMBER OF MEN CONSTITUTING ORDINARY CREWS EMPLOYED ON STEAMERS OPERATING IN 1880 AND 1889, AS REPORTED BY THE TENTH AND ELEVENTH CENSUSES, TOGETHER WITH WAGES PAID AND AVERAGES OF ANNUAL PAY AND DECREASE OR INCREASE PER MAN, GIVEN BY LOCALITIES.

STATES AND YEARS.	Total number men, ordinary crews.	Total wages paid.	Average annual wages per man.	Average annual decrease in wages per man.
Total	1880.. 3,008	\$1,953,451	\$649.42	.....
	1889.. 6,818	3,682,062	540.05	\$109.37
California	1880.. 1,970	1,158,200	587.92	.....
	1889.. 4,110	2,324,478	565.57	22.35
Oregon	1880.. 788	602,576	764.69	.....
	1889.. 1,882	920,002	488.84	275.85
Washington	1880.. 250	192,675	770.70	
	1889.. 826	437,582	529.76	240.94

TRANSPORTATION ON THE PACIFIC COAST.

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COMPARATIVE STATISTICS—Continued.

TABLE 28.—STEAMER TRAFFIC IN 1880 AND 1889—NUMBER OF TONS OF FREIGHT MOVED AND NUMBER OF PASSENGERS CARRIED BY STEAMERS AND UNRIGGED CRAFT OPERATING IN 1880 AND 1889, GIVEN BY LOCALITIES, AS REPORTED BY THE TENTH AND ELEVENTH CENSUSES.

STATES AND YEARS.	FREIGHT IN TONS.			PASSENGERS.		
	Total.	By steamers.	By unrigged craft.	Total.	Regular.	Ferry.
Total.....1880.....	2,087,293	2,087,293		6,604,712	300,752	6,303,960
.....1889.....	8,488,101	8,173,504	314,597	15,672,093	1,380,234	614,291,859
California.....1880.....	1,561,256	1,561,256		6,309,502	140,650	6,168,852
.....1889.....	5,178,911	5,115,947	62,964	12,477,941	211,171	612,266,770
Oregon.....1880.....	476,898	476,898		159,908	66,615	93,288
.....1889.....	993,567	905,677	87,890	2,698,503	775,665	1,922,838
Washington.....1880.....	49,139	49,139		135,307	93,487	41,820
.....1889.....	2,315,623	2,151,880	163,743	495,649	393,398	102,251

a Including railroad ferry freight.

b Including railroad ferry passengers.

TABLE 29.—FLEETS FOR THE TEN YEARS, 1880-1889—NUMBER AND TONNAGE OF ALL STEAMERS, SAILING VESSELS, AND UNRIGGED CRAFT REGISTERED IN THE CUSTOMS DISTRICTS OF THE PACIFIC COAST FOR THE TEN YEARS 1880-1889.

1880.

CUSTOMS DISTRICTS.	TOTAL.		STEAMERS.		SAILING VESSELS.		UNRIGGED CRAFT.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total.....	1,124	270,801.75	305	110,414.61	752	148,400.41	67	11,986.73
California.....	884	202,114.30	171	75,965.35	652	117,970.52	61	8,178.43
San Diego.....	17	975.26	2	147.94	15	827.32		
San Francisco.....	867	201,139.04	169	75,817.41	637	117,143.20	61	8,178.43
Oregon.....	135	39,657.63	91	28,808.00	38	7,041.33	6	3,808.30
Southern Oregon.....	12	662.09	12	662.09				
Oregon.....	46	2,360.79	17	1,037.86	29	1,322.93		
Willamette.....	77	36,634.75	62	27,108.05	9	5,718.40	0	3,808.30
Washington—Puget sound.....	105	29,029.82	43	5,641.26	62	23,388.56		

1881.

Total.....	1,128	284,425.60	310	112,434.54	748	158,940.98	70	13,050.08
California.....	868	202,906.59	168	75,336.06	639	119,392.10	61	8,178.43
San Diego.....	21	1,053.94	2	147.94	19	906.00		
San Francisco.....	847	201,852.65	166	75,188.12	620	118,486.10	61	8,178.43
Oregon.....	143	43,500.79	98	31,761.16	37	6,906.41	8	4,833.22
Southern Oregon.....	12	661.17	12	661.17				
Oregon.....	44	2,270.04	18	1,399.90	26	870.14		
Willamette.....	87	40,569.58	68	29,700.09	11	6,036.27	8	4,833.22
Washington—Puget sound.....	117	38,018.22	44	5,337.32	72	32,642.47	1	38.43

1882.

Total.....	1,166	300,766.83	326	120,434.91	772	167,351.44	68	12,980.45
California.....	887	211,126.02	170	75,385.21	656	127,562.38	61	8,178.43
San Diego.....	27	3,068.17	5	255.23	22	2,812.94		
San Francisco.....	860	208,057.85	165	75,129.98	634	124,749.44	61	8,178.43
Oregon.....	156	52,568.56	106	39,380.46	43	8,386.08	7	4,802.02
Southern Oregon.....	12	660.95	12	660.95				
Oregon.....	50	3,770.80	20	1,521.21	30	2,249.59		
Willamette.....	94	48,136.81	74	37,198.30	13	6,136.49	7	4,802.02
Washington—Puget sound.....	123	37,072.25	50	5,669.27	73	31,402.98		

STATISTICS OF TRANSPORTATION.

COMPARATIVE STATISTICS—Continued.

TABLE 29.—FLEETS FOR THE TEN YEARS, 1880-1889—Continued.

1883.

CUSTOMS DISTRICTS.	TOTAL.		STEAMERS.		SAILING VESSELS.		UNRIGGED CRAFT.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total	1,169	326,944.94	349	134,435.75	812	186,536.21	8	5,972.98
California.....	884	230,168.26	185	87,293.86	699	142,874.40		
San Diego	22	1,357.96	5	622.63	17	735.33		
Wilmington	9	1,071.64	3	533.90	6	537.74		
San Francisco	842	225,864.51	174	85,961.13	668	139,903.38		
Humboldt	11	1,874.15	3	176.20	8	1,697.95		
Oregon.....	145	52,994.69	102	39,155.01	35	7,866.70	8	5,972.98
Southern Oregon.....	12	706.15	12	706.15				
Oregon	46	3,432.44	22	1,686.07	24	1,746.37		
Willamette	87	48,856.10	68	36,762.79	11	6,120.33	8	5,972.98
Washington—Puget sound	140	43,781.99	62	7,986.88	78	35,795.11		

1884.

Total	1,202	334,188.81	384	146,561.82	818	187,626.99		
California.....	875	233,440.22	185	97,377.34	690	136,062.88		
San Diego	14	344.45	4	209.31	10	135.14		
Wilmington	11	1,422.54	3	533.90	8	888.64		
San Francisco	823	227,673.06	169	95,620.02	654	132,053.04		
Humboldt	27	4,000.17	9	1,014.11	18	2,986.06		
Oregon	163	50,798.48	121	40,182.07	42	10,616.41		
Southern Oregon	11	866.34	11	866.34				
Yaquina	5	1,295.29	5	1,295.29				
Oregon	57	3,887.45	30	2,107.43	27	1,780.02		
Willamette	90	44,749.40	75	35,913.01	15	8,836.39		
Washington—Puget sound	164	49,950.11	78	9,002.41	86	40,947.70		

1885.

Total	1,250	360,110.56	402	153,808.04	840	200,329.54	8	5,972.98
California.....	900	251,142.60	194	101,757.24	706	149,385.36		
San Diego.....	11	380.97	2	120.58	9	260.39		
Wilmington	12	831.93	3	236.55	9	595.38		
San Francisco	854	246,876.05	180	100,386.00	674	146,490.05		
Humboldt	23	3,053.65	9	1,014.11	14	2,039.54		
Oregon.....	184	50,191.81	129	42,626.54	47	10,592.29	8	5,972.98
Southern Oregon	14	1,554.19	12	1,417.39	2	136.80		
Yaquina	5	1,307.39	5	1,307.39				
Oregon	66	4,113.55	35	2,320.26	31	1,793.29		
Willamette	99	52,216.68	77	37,581.50	14	8,662.20	8	5,972.98
Washington—Puget sound	166	49,776.15	79	9,424.26	87	40,351.89		

TRANSPORTATION ON THE PACIFIC COAST.

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COMPARATIVE STATISTICS—Continued.

TABLE 29.—FLEETS FOR THE TEN YEARS, 1880-1889—Continued.

1886.

CUSTOMS DISTRICTS.	TOTAL.		STEAMERS.		SAILING VESSELS.		UNRIGGED CRAFT.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total	1,253	347,030.73	416	156,320.30	829	184,766.45	8	5,972.98
California	885	248,132.93	198	103,591.98	687	144,540.95		
San Diego	13	203.00	2	34.16	11	168.84		
Wilmington	13	919.70	1	307.93	10	611.77		
San Francisco	833	243,413.77	183	102,178.08	650	141,235.69		
Humboldt	26	3,596.46	10	1,071.81	16	2,524.65		
Oregon	191	56,806.43	132	42,517.08	51	8,316.37	8	5,972.98
Southern Oregon	14	763.07	11	608.31	3	154.76		
Yaquina	6	1,406.59	6	1,406.59				
Oregon	68	2,816.20	34	2,161.17	34	655.03		
Willamette	103	51,820.57	81	38,341.01	14	7,506.58	8	5,972.98
Washington—Puget sound	177	42,120.37	86	10,211.24	91	31,909.13		

1887.

Total	1,217	355,814.58	426	160,139.75	783	189,701.85	8	5,972.98
California	864	254,092.29	203	111,049.41	661	143,042.88		
San Diego	21	2,519.64	4	443.45	17	2,076.19		
Wilmington	15	1,737.64	3	307.93	12	1,429.71		
San Francisco	803	246,699.65	187	109,606.65	616	137,093.00		
Humboldt	25	3,135.36	9	691.38	16	2,443.98		
Oregon	188	52,261.69	137	38,697.60	43	7,591.11	8	5,972.98
Southern Oregon	12	534.39	11	538.08	1	16.31		
Yaquina	10	3,332.84	10	3,332.84				
Oregon	65	3,352.49	33	2,318.73	32	1,033.76		
Willamette	101	45,021.97	83	32,507.95	10	6,541.04	8	5,972.98
Washington—Puget sound	165	49,460.60	86	10,392.74	79	39,067.86		

1888.

Total	1,293	399,173.18	459	168,268.58	826	224,931.62	8	5,972.98
California	917	281,131.83	225	115,976.96	692	165,154.87		
San Diego	31	2,167.62	7	1,088.50	24	1,079.12		
Wilmington	18	2,598.41	5	580.95	13	2,017.46		
San Francisco	837	271,063.19	204	113,725.12	633	157,338.07		
Humboldt	31	5,302.61	9	582.39	22	4,720.22		
Oregon	185	53,317.28	136	40,616.88	41	6,727.42	8	5,972.98
Southern Oregon	12	548.10	12	548.10				
Yaquina	9	2,202.75	9	2,202.75				
Oregon	67	4,462.93	34	2,188.38	33	2,274.55		
Willamette	97	46,103.50	81	35,677.65	8	4,452.87	8	5,972.98
Washington—Puget sound	191	64,724.07	98	11,674.74	93	53,049.33		

STATISTICS OF TRANSPORTATION.

COMPARATIVE STATISTICS—Continued.

TABLE 29.—FLEETS FOR THE TEN YEARS, 1880-1889—Continued.

1889.

CUSTOMS DISTRICTS.	TOTAL.		STEAMERS.		SAILING VESSELS.		UNRIGGED CRAFT.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total	1,367	435,004.14	517	180,496.04	841	248,429.78	9	6,078.32
California.....	957	314,227.08	249	122,405.03	708	191,822.05		
San Diego.....	30	1,630.92	8	1,136.01	22	494.91		
Wilmington.....	19	1,570.68	7	889.64	12	681.04		
San Francisco.....	880	306,178.34	222	119,177.69	658	187,000.65		
Humboldt.....	28	4,847.14	12	1,201.69	16	3,645.45		
Oregon.....	196	51,238.13	148	39,543.21	40	5,721.94	8	5,972.98
Southern Oregon.....	15	779.11	13	660.65	2	118.46		
Yaquina.....	11	2,360.85	11	2,360.85				
Oregon.....	72	5,391.03	40	3,003.96	32	2,387.07		
Willamette.....	98	42,707.14	84	33,517.75	6	3,216.41	8	5,972.98
Washington—Puget sound.....	214	69,538.93	120	18,547.80	93	50,885.79	1	105.34

RECAPITULATION FOR THE TEN YEARS.

1880.....	1,124	270,801.75	305	110,414.61	752	148,400.41	67	11,986.73
1881.....	1,128	284,425.60	310	112,434.54	748	158,940.98	70	13,050.08
1882.....	1,166	300,766.83	326	120,444.94	772	167,351.44	68	12,980.45
1883.....	1,169	326,944.94	349	134,435.75	812	186,536.21	8	5,972.98
1884.....	1,202	334,188.81	384	146,561.82	818	187,626.99		
1885.....	1,250	360,110.56	402	153,808.04	840	200,329.54	8	5,172.98
1886.....	1,253	347,059.73	416	156,320.30	829	184,766.45	8	5,972.98
1887.....	1,217	355,814.58	426	160,139.75	783	189,701.85	8	5,972.98
1888.....	1,293	399,173.18	459	168,268.58	826	224,931.62	8	5,972.98
1889.....	1,367	435,004.14	517	180,496.04	841	248,429.78	9	6,078.32

COMPARATIVE STATISTICS—Continued.

TABLE 30.—AGGREGATES AND AVERAGES FOR THE TEN YEARS, 1880-1889—NUMBER, AGGREGATE TONNAGE, AND AVERAGE TONNAGE OF ALL VESSELS REGISTERED AT THE CUSTOMS DISTRICTS OF THE PACIFIC COAST DURING THE TEN YEARS 1880-1889.

CUSTOMS DISTRICTS.	1880			1881			1882			1883			1884		
	Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.	
		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.
Total	1,124	270,801.75	240.93	1,128	284,425.60	252.15	1,166	300,766.83	257.95	1,169	326,944.94	279.68	1,202	334,188.81	278.03
California	884	202,114.30	228.64	868	202,906.59	233.76	887	211,126.02	238.02	884	230,168.26	260.27	875	233,440.22	266.79
San Diego	17	975.26	57.37	21	1,053.94	50.19	27	3,068.17	113.64	22	1,357.96	61.73	14	344.45	24.60
Wilmington										9	1,071.64	119.07	11	1,422.54	129.32
San Francisco	867	201,139.04	231.99	847	201,852.65	238.31	860	208,057.85	241.93	842	225,864.51	268.25	823	227,673.06	276.64
Humboldt										11	1,874.15	170.38	27	4,000.17	148.15
Oregon	135	39,657.63	293.76	143	43,500.79	304.20	156	52,568.56	336.98	145	52,994.69	365.48	163	50,798.48	311.65
Southern Oregon ..	12	662.09	55.17	12	661.17	55.10	12	660.95	55.08	12	706.15	58.85	11	806.34	73.76
Yaquina													5	1,295.29	259.06
Oregon	46	2,360.79	51.32	44	2,270.04	51.59	50	3,770.80	75.42	46	3,432.44	74.62	57	3,897.45	68.20
Willamette	77	36,634.75	475.78	87	40,569.58	466.32	94	48,136.81	512.09	87	48,856.10	561.56	90	44,749.40	497.22
Washington — Puget sound.	105	29,029.82	276.47	117	38,018.22	324.94	123	37,072.25	301.40	140	43,781.99	312.73	164	49,950.11	304.57
CUSTOMS DISTRICTS.	1885			1886			1887			1888			1889		
	Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.	
		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.
Total	1,250	360,110.56	288.09	1,253	347,059.73	276.98	1,217	355,814.58	292.37	1,293	390,173.18	308.72	1,367	435,004.14	318.22
California	900	251,142.00	279.05	885	248,132.93	280.38	864	254,092.29	294.09	917	281,131.83	306.58	957	314,227.08	328.35
San Diego	11	380.97	34.63	13	203.00	15.62	21	2,519.64	119.98	31	2,167.62	69.92	30	1,630.92	54.36
Wilmington	12	831.93	69.33	13	919.70	70.75	15	1,737.64	115.84	18	2,598.41	144.36	19	1,570.68	82.67
San Francisco	854	246,876.05	289.08	833	243,413.77	292.21	803	246,699.65	307.22	837	271,063.19	323.85	880	306,178.34	347.93
Humboldt	23	3,053.65	132.77	26	3,596.46	138.33	25	3,135.36	125.41	31	5,302.61	171.05	28	4,847.14	173.11
Oregon	184	59,191.81	321.69	191	56,806.43	297.42	188	52,261.69	277.99	185	53,317.28	288.20	196	51,238.13	261.42
Southern Oregon ..	14	1,554.19	111.01	14	763.07	54.51	12	554.39	46.20	12	548.10	45.68	15	779.11	51.94
Yaquina	5	1,307.39	261.48	6	1,406.59	234.43	10	3,332.84	333.28	9	2,202.75	244.75	11	2,360.85	214.62
Oregon	66	4,113.55	62.33	68	2,816.20	41.41	65	3,352.49	51.58	67	4,462.93	66.61	72	5,391.03	74.88
Willamette	99	52,216.68	527.44	103	51,820.57	503.11	101	45,021.97	445.76	97	46,103.50	475.29	98	42,707.14	435.79
Washington — Puget sound.	166	49,776.15	299.86	177	42,120.37	237.97	165	49,460.60	299.76	191	64,724.07	338.87	214	69,538.93	324.95

STATISTICS OF TRANSPORTATION.

COMPARATIVE STATISTICS—Continued.

TABLE 31.—AGGREGATES AND AVERAGES FOR THE TEN YEARS, 1880-1889—NUMBER, AGGREGATE TONNAGE, AND AVERAGE TONNAGE OF ALL STEAMERS REGISTERED AT THE CUSTOMS DISTRICTS OF THE PACIFIC COAST DURING THE TEN YEARS 1880-1889.

CUSTOMS DISTRICTS.	1880			1881			1882			1883			1884		
	Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.	
		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.
Total	305	110,414.61	362.02	310	112,434.54	362.69	326	120,434.94	369.43	349	134,435.75	385.20	384	146,561.82	381.67
California	171	75,965.35	444.24	168	75,336.06	448.43	170	75,385.21	443.44	185	87,293.86	471.86	185	97,377.34	526.36
San Diego	2	147.94	73.97	2	147.94	73.97	5	255.23	51.05	5	622.63	124.53	4	209.31	52.33
Wilmington										3	533.90	177.97	3	533.90	177.97
San Francisco	169	75,817.41	448.62	166	75,188.12	452.94	165	75,129.98	455.33	174	85,961.13	494.03	169	95,620.02	565.80
Humboldt										3	176.20	58.73	9	1,014.11	112.68
Oregon	91	28,808.00	316.57	98	31,761.16	324.09	106	39,380.46	371.51	102	39,155.01	383.87	121	40,182.07	332.08
Southern Oregon ..	12	662.09	55.17	12	661.17	55.10	12	660.95	55.08	12	706.15	58.85	11	866.34	78.76
Yaquina													5	1,295.29	259.06
Oregon	17	1,037.86	61.05	18	1,399.90	77.77	20	1,521.21	76.06	22	1,686.07	76.64	30	2,107.43	70.25
Willamette	62	27,108.05	437.23	68	29,700.09	436.77	74	37,198.30	502.68	68	36,762.79	540.63	75	35,913.01	478.84
Washington — Puget sound.	43	5,641.26	131.19	44	5,337.32	121.30	50	5,669.27	113.39	62	7,986.88	128.82	78	9,002.41	115.42

CUSTOMS DISTRICTS.	1885			1886			1887			1888			1889		
	Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.	
		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.
Total	402	153,808.04	382.61	416	156,320.30	375.77	426	160,139.75	375.91	459	168,268.58	366.60	517	180,496.04	349.12
California	194	101,757.24	524.52	198	103,591.98	523.19	203	111,049.41	547.04	225	115,976.96	515.45	249	122,405.03	491.59
San Diego	2	120.58	60.29	2	34.16	17.08	4	443.45	110.86	7	1,088.50	155.50	8	1,136.01	142.00
Wilmington	3	236.55	78.85	3	307.93	102.64	3	307.93	102.64	5	580.95	116.19	7	889.64	127.09
San Francisco	180	100,386.00	557.70	183	102,178.08	558.35	187	109,606.65	586.13	204	113,725.12	557.48	222	119,177.69	536.84
Humboldt	9	1,014.11	112.68	10	1,071.81	107.18	9	691.38	76.82	9	582.39	64.71	12	1,201.69	100.14
Oregon	129	42,626.54	330.44	132	42,517.08	322.10	137	38,697.60	282.46	136	40,616.88	298.65	148	39,543.21	267.18
Southern Oregon ..	12	1,417.39	118.12	11	608.31	55.30	11	538.08	48.92	12	548.10	45.68	13	660.65	50.82
Yaquina	5	1,307.39	261.48	6	1,406.59	234.43	10	3,332.84	333.28	9	2,202.75	244.75	11	2,360.85	214.62
Oregon	35	2,320.26	66.29	34	2,161.17	63.56	33	2,318.73	70.26	34	2,188.38	64.36	40	3,003.96	75.10
Willamette	77	37,581.50	488.07	81	38,341.01	473.35	83	32,507.95	391.66	81	35,677.65	440.46	84	33,517.75	399.02
Washington — Puget sound.	79	9,424.26	119.29	86	10,211.24	118.74	86	10,392.74	120.85	98	11,674.74	119.13	120	18,547.80	154.57

TRANSPORTATION ON THE PACIFIC COAST.

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COMPARATIVE STATISTICS—Continued.

TABLE 32.—AGGREGATES AND AVERAGES FOR THE TEN YEARS, 1880-1889—NUMBER, AGGREGATE TONNAGE, AND AVERAGE TONNAGE OF ALL SAILING VESSELS REGISTERED AT THE CUSTOMS DISTRICTS OF THE PACIFIC COAST DURING THE TEN YEARS 1880-1889.

CUSTOMS DISTRICTS.	1880			1881			1882			1883			1884		
	Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.	
		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.
Total	752	148,400.41	197.34	748	158,940.98	212.49	772	167,351.44	216.78	812	186,536.21	229.72	818	187,626.99	229.37
California	652	117,970.52	180.94	639	119,392.10	186.84	656	127,562.38	194.45	699	142,874.40	204.40	690	136,062.88	197.19
San Diego	15	827.32	55.15	19	906.00	47.68	22	2,812.94	127.86	17	735.33	43.25	19	135.14	13.51
Wilmington										6	537.74	89.62	8	888.64	111.08
San Francisco	637	117,143.20	183.90	620	118,486.10	191.11	634	124,749.44	196.77	668	139,903.38	209.44	654	132,053.04	201.92
Humboldt										8	1,697.95	212.24	18	2,986.06	165.89
Oregon	38	7,041.33	185.30	37	6,906.41	186.66	43	8,386.08	195.03	35	7,869.70	224.76	42	10,616.41	252.77
Southern Oregon															
Oregon	29	1,322.93	45.62	26	870.14	33.47	30	2,249.59	74.99	24	1,746.37	72.77	27	1,780.02	65.93
Willamette	9	5,718.40	635.38	11	6,036.27	548.75	13	6,136.49	472.04	11	6,120.33	556.39	15	8,836.39	589.09
Washington — Puget sound.	62	23,988.56	377.23	72	32,642.47	453.37	73	31,402.98	430.18	78	35,795.11	458.91	86	40,947.70	476.14
CUSTOMS DISTRICTS.	1885			1886			1887			1888			1889		
	Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.	
		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.
Total	840	200,320.54	238.49	829	184,766.45	222.88	783	189,701.85	242.28	826	224,931.62	272.31	841	248,429.78	295.40
California	706	149,385.36	211.59	687	144,540.95	210.39	661	143,042.88	216.40	692	165,154.87	238.66	708	191,822.05	270.94
San Diego	9	260.39	28.93	11	168.84	15.35	17	2,076.19	122.13	24	1,079.12	44.96	22	494.91	22.50
Wilmington	9	595.38	66.15	10	611.77	61.18	12	1,429.71	119.14	13	2,617.46	155.19	12	681.04	56.75
San Francisco	674	146,490.05	217.34	650	141,235.69	217.29	616	137,093.00	222.55	633	157,338.07	248.56	658	187,000.65	284.20
Humboldt	14	2,039.54	145.68	16	2,524.65	157.79	16	2,443.98	152.75	22	4,720.22	214.56	16	3,645.45	227.84
Oregon	47	10,592.29	225.37	51	8,316.37	163.07	43	7,591.11	176.54	41	6,727.42	164.08	40	5,721.94	143.05
Southern Oregon	2	136.80	68.40	3	154.76	51.59	1	16.31	16.31				2	118.46	59.23
Oregon	31	1,793.29	57.85	34	655.03	19.27	32	1,033.76	32.31	33	2,274.55	68.93	32	2,387.07	74.60
Willamette	14	8,662.20	618.73	14	7,506.58	536.18	10	6,541.04	654.10	8	4,452.87	556.61	6	3,216.41	536.07
Washington — Puget sound.	87	40,351.89	463.81	91	31,909.13	350.65	79	39,067.86	494.53	93	53,049.33	570.42	93	50,885.79	547.16

STATISTICS OF TRANSPORTATION.

COMPARATIVE STATISTICS—Continued.

TABLE 33.—AGGREGATES AND AVERAGES FOR THE TEN YEARS, 1880-1889—NUMBER, AGGREGATE TONNAGE, AND AVERAGE TONNAGE OF ALL UNRIGGED CRAFT REGISTERED AT THE CUSTOMS DISTRICTS OF THE PACIFIC COAST DURING THE TEN YEARS 1880-1889.

CUSTOMS DISTRICTS.	1880			1881			1882			1883			1884		
	Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.	
		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.
Total	67	11,986.73	178.91	70	13,050.08	186.43	68	12,980.45	190.89	8	5,972.98	746.62			
San Francisco, Califor- nia.	61	8,178.43	134.07	61	8,178.43	134.07	61	8,178.43	134.07						
Willamette, Oregon.	6	3,808.30	634.72	8	4,833.22	604.15	7	4,802.02	686.00	8	5,972.98	746.62			
Puget sound, Washing- ton.				1	38.43	38.43									
CUSTOMS DISTRICTS.	1885			1886			1887			1888			1889		
	Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.		Num- ber.	Tonnage.	
		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.		Total.	Aver- age.
Total	8	5,972.98	746.62	8	5,972.98	746.62	8	5,972.98	746.62	8	5,972.98	746.62	9	6,078.32	675.37
San Francisco, Califor- nia.															
Willamette, Oregon.	8	5,972.98	746.62	8	5,972.98	746.62	8	5,972.98	746.62	8	5,972.98	746.62	8	5,972.98	746.62
Puget sound, Washing- ton.													1	105.34	105.34

TABLE 34.—FLUCTUATIONS FOR THE TEN YEARS, 1880-1889—AVERAGE ANNUAL NUMBER OF ALL CRAFT AND AVERAGE ANNUAL TONNAGE REGISTERED AT THE CUSTOMS DISTRICTS OF THE PACIFIC COAST DURING THE TEN YEARS 1880-1889, TOGETHER WITH THE INDICATED YEARS OF HIGHEST, LOWEST, AND MEAN REGISTRATION.

CUSTOMS DISTRICTS.	FLUCTUATIONS IN NUMBER.								FLUCTUATIONS IN TONNAGE.							
	Annual average number of vessels regis- tered.	Highest above average.		Lowest below average.		Closest to average.		Fluc- tuation in num- ber.	Annual average regis- tered tonnage.	Highest above average.		Lowest below average.		Closest to average.		Fluc- tuation in ton- nage.
		Year.	Num- ber.	Year.	Num- ber.	Year.	Num- ber.			Year.	Tonnage.	Year.	Tonnage.	Year.	Tonnage.	
Total	1,217	1889	1,367	1880	1,124	1887	1,217	243	341,429	1889	435,004	1880	270,802	1886	347,060	164,202
California	892	1889	957	1887	864	1882	887	93	242,848	1889	314,227	1880	202,114	1886	248,133	112,113
San Diego	21	1888	31	1885	11	1881	21	20	1,370	1882	3,068	1886	203	1883	1,358	2,865
Wilmington	14	1889	19	1883	9	1886	13	10	1,450	1888	2,598	1885	832	1884	1,423	1,766
San Francisco	845	1889	880	1887	803	1881	847	77	237,882	1889	306,178	1880	201,139	1886	243,414	105,039
Humboldt	21	1888	31	1883	11	1887	25	20	3,687	1888	5,303	1883	1,874	1886	3,596	3,429
Oregon.....	169	1889	196	1880	135	1884	163	61	51,234	1885	59,192	1880	39,658	1889	51,238	19,534
Southern Oregon.....	13	1889	15	1884	11	1880	12	4	776	1885	1,554	1888	548	1889	779	1,006
Yaquina.....	8	1889	11	1884	5	1888	9	6	1,984	1887	3,333	1884	1,295	1888	2,203	2,038
Oregon.....	58	1889	72	1881	44	1884	57	28	3,586	1889	5,391	1881	2,270	1883	3,432	3,121
Willamette	93	1886	103	1880	77	1882	94	26	45,682	1885	52,217	1880	36,635	1888	46,104	15,582
Washington—Puget sound ..	156	1889	214	1880	105	1884	164	109	47,347	1889	69,539	1880	29,030	1887	49,461	40,509

COMPARATIVE STATISTICS—Continued.

TABLE 35.—FLUCTUATIONS FOR THE TEN YEARS, 1880-1889—AVERAGE ANNUAL NUMBER OF STEAMERS AND AVERAGE ANNUAL TONNAGE REGISTERED AT THE CUSTOMS DISTRICTS OF THE PACIFIC COAST DURING THE TEN YEARS 1880-1889, TOGETHER WITH THE INDICATED YEARS OF HIGHEST, LOWEST, AND MEAN REGISTRATION.

CUSTOMS DISTRICTS.	FLUCTUATIONS IN NUMBER.								FLUCTUATIONS IN TONNAGE.							
	Annual average number of vessels registered.	Highest above average.		Lowest below average.		Closest to average.		Fluctuation in number.	Annual average registered tonnage.	Highest above average.		Lowest below average.		Closest to average.		Fluctuation in tonnage.
		Year.	Number.	Year.	Number.	Year.	Number.			Year.	Tonnage.	Year.	Tonnage.	Year.	Tonnage.	
Total	389	1889	517	1880	305	1884	384	212	144,331	1889	180,496	1880	110,415	1884	146,562	70,681
California	195	1889	249	1881	168	1885	194	81	96,614	1889	122,405	1881	73,336	1884	97,377	47,069
San Diego	4	1889	8	1880	2	1884	4	6	421	1889	1,136	1886	34	1887	443	1,102
Wilmington	4	1889	7	1883	3	1883	3	4	484	1889	890	1885	237	1883	534	653
San Francisco	182	1889	222	1882	165	1886	183	57	95,279	1889	119,178	1882	75,130	1884	95,620	44,048
Humboldt	9	1889	12	1883	3	1884	9	9	822	1889	1,202	1883	176	1887	691	1,026
Oregon	120	1889	148	1880	91	1884	121	57	38,329	1885	42,627	1880	28,808	1887	38,698	13,813
Southern Oregon	12	1889	13	1884	11	1880	12	2	733	1885	1,417	1887	538	1883	706	879
Yaquina	8	1889	11	1884	5	1888	9	6	1,984	1887	3,333	1884	1,295	1888	2,203	2,038
Oregon	28	1889	40	1880	17	1884	30	23	1,974	1889	3,004	1880	1,038	1884	2,107	1,966
Willamette	75	1889	84	1880	62	1884	75	22	34,431	1886	38,341	1880	27,108	1889	33,518	11,233
Washington—Puget sound ..	75	1889	120	1880	43	1884	78	77	9,389	1889	18,548	1881	5,337	1885	9,424	13,211

TABLE 36.—FLUCTUATIONS FOR THE TEN YEARS, 1880-1889—AVERAGE ANNUAL NUMBER OF SAILING VESSELS AND AVERAGE ANNUAL TONNAGE REGISTERED AT THE CUSTOMS DISTRICTS OF THE PACIFIC COAST DURING THE TEN YEARS 1880-1889, TOGETHER WITH THE INDICATED YEARS OF HIGHEST, LOWEST, AND MEAN REGISTRATION.

CUSTOMS DISTRICTS.	FLUCTUATIONS IN NUMBER.								FLUCTUATIONS IN TONNAGE.							
	Annual average number of vessels registered.	Highest above average.		Lowest below average.		Closest to average.		Fluctuation in number.	Annual average registered tonnage.	Highest above average.		Lowest below average.		Closest to average.		Fluctuation in tonnage.
		Year.	Number.	Year.	Number.	Year.	Number.			Year.	Tonnage.	Year.	Tonnage.	Year.	Tonnage.	
Total	802	1889	841	1881	748	1883	812	93	189,702	1889	248,430	1880	148,400	1887	189,702	100,030
California	679	1889	708	1881	639	1886	687	69	143,781	1889	191,822	1880	117,971	1887	143,043	73,851
San Diego	17	1888	24	1885	9	1883	17	15	950	1882	2,813	1884	135	1881	906	2,678
Wilmington	10	1888	13	1883	6	1886	10	7	966	1888	2,017	1883	538	1884	889	1,479
San Francisco	644	1885	674	1887	616	1880	650	58	140,149	1889	187,001	1880	117,143	1883	139,903	69,858
Humboldt	16	1888	22	1883	8	1886	16	14	2,865	1888	4,720	1883	1,698	1884	2,986	3,022
Oregon	42	1886	51	1883	35	1884	42	16	7,977	1884	10,616	1889	5,722	1883	7,867	4,894
Southern Oregon	2	1886	3	1887	1	1885	2	2	107	1886	155	1887	16	1889	118	139
Oregon	30	1886	34	1883	24	1882	30	10	1,611	1880	2,387	1886	655	1883	1,746	1,732
Willamette	11	1884	15	1889	6	1881	11	9	6,323	1884	8,836	1889	3,216	1882	6,136	5,620
Washington—Puget sound ..	81	1888	93	1880	62	1887	79	31	37,944	1888	53,049	1880	23,389	1887	39,068	29,660

STATISTICS OF TRANSPORTATION.

COMPARATIVE STATISTICS—Continued.

TABLE 37.—FLUCTUATIONS FOR THE TEN YEARS, 1880-1889—AVERAGE ANNUAL NUMBER OF UNRIGGED CRAFT AND AVERAGE ANNUAL TONNAGE REGISTERED AT THE CUSTOMS DISTRICTS OF THE PACIFIC COAST DURING THE TEN YEARS 1880-1889, TOGETHER WITH THE INDICATED YEARS OF HIGHEST, LOWEST, AND MEAN REGISTRATION.

CUSTOMS DISTRICTS.	FLUCTUATIONS IN NUMBER.								FLUCTUATIONS IN TONNAGE.							
	Annual average number of vessels registered.	Highest above average.		Lowest below average.		Closest to average.		Fluctuation in number.	Annual average registered tonnage.	Highest above average.		Lowest below average.		Closest to average.		Fluctuation in tonnage.
		Year.	Number.	Year.	Number.	Year.	Number.			Year.	Tonnage.	Year.	Tonnage.	Year.	Tonnage.	
Total.....	28	1881	70	1883	8	1889	9	62	8,218	1881	13,050	1883	5,973	1889	6,078	7,077
San Francisco.....	61								8,178							
Willamette, Oregon.....	8			1880	6	1881	8	2	5,176	1883	5,973	1880	3,808	1883	5,973	2,165
Puget sound, Washington....	1								72	1889	105	1881	38	1889	105	67

TABLE 38.—SHIPBUILDING FOR THE TEN YEARS, 1880-1889—NUMBER AND TONNAGE OF ALL STEAMERS, SAILING VESSELS, AND UNRIGGED CRAFT BUILT IN THE CUSTOMS DISTRICTS OF THE PACIFIC COAST DURING THE TEN YEARS 1880-1889.

1880.

CUSTOMS DISTRICTS.	TOTAL.		STEAMERS.		SAILING VESSELS.		UNRIGGED CRAFT.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total.....	41	8,943.04	25	7,642.61	15	937.44	1	362.99
California—San Francisco.....	18	5,795.16	7	4,948.85	11	846.31		
Oregon.....	16	2,465.56	13	2,027.40	2	75.17	1	362.99
Southern Oregon.....	2	56.33	1	5.43	1	50.90		
Oregon.....	2	46.84	1	22.57	1	24.27		
Willamette.....	12	2,362.39	11	1,999.40			1	362.99
Washington—Puget sound.....	7	682.32	5	666.36	2	15.96		

1881.

Total.....	58	11,417.49	21	3,010.41	35	7,382.15	2	1,024.93
California—San Francisco.....	26	4,555.70	5	1,358.62	21	3,197.08		
Oregon.....	22	4,330.89	13	1,616.50	7	1,689.46	2	1,024.93
Southern Oregon.....	1	388.59			1	388.59		
Oregon.....	4	303.41	2	280.74	2	22.67		
Willamette.....	17	3,638.89	11	1,335.76	4	1,278.20	2	1,024.93
Washington—Puget sound.....	10	2,530.90	3	35.29	7	2,495.61		

1882.

Total.....	74	15,770.52	28	6,727.35	46	9,043.17		
California.....	36	6,997.62	11	3,620.53	25	3,377.09		
San Diego.....	2	265.90	1	18.56	1	247.34		
San Francisco.....	34	6,731.72	10	3,601.97	24	3,129.75		
Oregon.....	20	4,835.71	10	2,699.81	10	2,135.90		
Southern Oregon.....	6	1,068.29			6	1,068.29		
Oregon.....	6	614.32	4	222.86	2	391.46		
Willamette.....	8	3,153.10	6	2,476.95	2	676.15		
Washington—Puget sound.....	18	3,937.19	7	407.01	11	3,530.18		

TRANSPORTATION ON THE PACIFIC COAST.

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COMPARATIVE STATISTICS—Continued.

TABLE 38.—SHIPBUILDING FOR THE TEN YEARS, ALL CRAFT, 1880-1889—Continued.

1883.

CUSTOMS DISTRICTS.	TOTAL.		STEAMERS.		SAILING VESSELS.		UNRIGGED CRAFT.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total	91	16,737.97	34	4,019.17	56	11,547.84	1	1,170.96
California	52	9,047.47	11	2,408.96	41	6,638.51		
San Diego	1	12.29			1	12.29		
San Francisco	46	8,168.09	11	2,408.96	35	5,759.13		
Humboldt	5	867.09			5	867.09		
Oregon	20	3,739.99	14	878.09	5	1,690.94	1	1,170.96
Southern Oregon	5	1,421.51	1	58.74	4	1,362.77		
Oregon	11	2,061.60	9	562.47	1	328.17	1	1,170.96
Willamette	4	256.88	4	256.88				
Washington—Puget sound	19	3,950.51	9	732.12	10	3,218.39		

1884.

Total	84	10,612.36	42	5,865.99	42	4,746.37		
California	39	6,300.99	13	3,963.79	26	2,337.20		
San Diego	3	31.94			3	31.94		
San Francisco	30	5,037.04	12	3,880.32	18	1,156.72		
Humboldt	6	1,232.01	1	83.47	5	1,148.54		
Oregon	24	1,659.40	15	976.93	9	682.47		
Southern Oregon	3	503.34	1	104.50	2	398.84		
Oregon	11	433.13	6	317.01		116.12		
Willamette	10	722.93	8	555.42	2	167.51		
Washington—Puget sound	21	2,651.97	14	925.27	7	1,726.70		

1885.

STATISTICS OF TRANSPORTATION.

COMPARATIVE STATISTICS—Continued.

TABLE 38.—SHIPBUILDING FOR THE TEN YEARS, ALL CRAFT, 1880-1889—Continued.

1886.

CUSTOMS DISTRICTS.	TOTAL.		STEAMERS.		SAILING VESSELS.		UNRIGGED CRAFT.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total	58	5,913.92	23	3,023.31	35	2,890.61		
California.....	29	3,084.22	9	2,039.24	20	1,044.98		
San Diego.....	2	26.12			2	26.12		
San Francisco.....	25	2,855.14	8	1,981.54	17	873.60		
Humboldt.....	2	202.96	1	57.70	1	145.26		
Oregon.....	16	1,351.49	9	624.86	7	726.63		
Southern Oregon.....	2	610.16			2	610.16		
Oregon.....	5	136.40	1	33.02	4	103.38		
Willamette.....	9	604.93	8	591.84	1	13.09		
Washington—Puget sound.....	13	1,478.21	5	359.21	8	1,119.00		

1887.

Total	71	9,106.24	32	3,750.45	39	5,355.79		
California.....	36	4,388.04	12	2,241.14	24	2,146.90		
San Diego.....	1	8.28			1	8.28		
San Francisco.....	33	3,758.45	12	2,241.14	21	1,517.31		
Humboldt.....	2	621.31			2	621.31		
Oregon.....	13	1,227.17	14	1,117.48	2	109.69		
Southern Oregon.....	3	263.10	2	174.27	1	88.83		
Yaquina.....	1	65.49	1	65.49				
Oregon.....	6	341.63	5	320.77	1	20.86		
Willamette.....	6	556.95	6	556.95				
Washington—Puget sound.....	19	3,491.03	6	391.83	13	3,099.20		

1888.

Total	104	21,956.43	55	12,710.22	48	9,140.87	1	105.34
California.....	60	11,490.77	28	8,683.04	32	2,807.73		
San Diego.....	6	793.03	4	745.80	2	47.23		
Wilmington.....	3	75.24	1	36.48	2	38.76		
San Francisco.....	47	9,687.31	22	7,891.60	25	1,795.71		
Humboldt.....	4	935.19	1	9.16	3	926.03		
Oregon.....	23	4,702.19	17	3,141.59	6	1,560.60		
Southern Oregon.....	3	651.75	2	154.89	1	496.86		
Yaquina.....	1	91.56	1	91.56				
Oregon.....	10	1,302.33	5	238.59	5	1,063.74		
Willamette.....	9	2,656.55	9	2,656.55				
Washington—Puget sound.....	21	5,763.47	10	885.59	10	4,772.54	1	105.34

COMPARATIVE STATISTICS—Continued.

TABLE 38.—SHIPBUILDING FOR THE TEN YEARS, ALL CRAFT, 1880-1889—Continued.

1889.

CUSTOMS DISTRICTS.	TOTAL.		STEAMERS.		SAILING VESSELS.		UNRIGGED CRAFT.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total	110	17,909.48	71	12,734.30	39	5,175.18		
California	55	9,497.96	34	7,790.70	21	1,707.26		
San Diego	2	38.59			2	38.59		
San Francisco	48	8,606.05	31	7,551.16	17	1,055.49		
Humboldt	5	852.72	3	239.54	2	613.18		
Oregon	30	4,159.91	21	2,873.36	9	1,286.55		
Southern Oregon	4	1,169.82			4	1,169.82		
Yaquina	3	220.11	3	220.11				
Oregon	13	544.42	8	427.69	5	116.73		
Willamette	10	2,225.56	10	2,225.56				
Washington—Puget sound	25	4,251.61	16	2,070.24	9	2,181.37		

RECAPITULATION FOR THE TEN YEARS.

Total for 10 years	764	120,368.73	369	68,351.18	390	58,353.33	5	2,664.22
1880	41	8,943.04	25	7,642.61	15	937.44	1	362.99
1881	58	11,417.49	21	3,010.41	35	7,382.15	2	1,024.93
1882	74	15,770.52	28	6,727.35	46	9,043.17		
1883	91	16,737.97	34	4,019.17	56	11,547.84	1	1,170.96
1884	84	10,612.36	42	5,865.99	42	4,746.37		
1885	73	11,001.28	38	8,867.37	35	2,133.91		
1886	58	5,913.92	23	3,023.31	35	2,890.61		
1887	71	9,106.24	32	3,750.45	39	5,355.79		
1888	104	21,956.43	55	12,710.22	48	9,140.87	1	105.34
1889	110	17,909.48	71	12,734.30	39	5,175.18		

STATISTICS OF TRANSPORTATION.

COMPARATIVE STATISTICS—Continued.

TABLE 39.—SHIPBUILDING FOR THE TEN YEARS, 1880-1889—NUMBER AND TONNAGE OF ALL STEAMERS BUILT IN EACH CUSTOMS DISTRICT OF THE PACIFIC COAST DURING THE TEN YEARS 1880-1889, CLASSIFIED AS PROPELLERS AND SIDE-WHEEL AND STERN-WHEEL STEAMERS.

1880.

CUSTOMS DISTRICTS.	METHODS OF PROPULSION.							
	All steamers.		Propeller.		Side-wheel.		Stern-wheel.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total	25	7,642.61	10	402.48	9	5,804.35	6	1,435.78
California—San Francisco	7	4,948.85	4	264.26	2	4,630.01	1	54.58
Oregon	13	2,027.40	4	75.52	6	701.68	3	1,250.20
Southern Oregon	1	5.43	1	5.43				
Oregon	1	22.57	1	22.57				
Willamette	11	1,999.40	2	47.52	6	701.68	3	1,250.20
Washington—Puget sound	5	666.36	2	62.70	1	472.66	2	131.00

1881.

Total	21	3,010.41	10	887.12	4	325.06	7	1,798.23
California—San Francisco	5	1,358.62	3	422.08			2	936.54
Oregon	13	1,616.50	4	429.75	4	325.06	5	861.69
Oregon	2	280.74	1	23.06			1	257.68
Willamette	11	1,335.76	3	406.69	4	325.06	4	604.01
Washington—Puget sound	3	35.29	3	35.29				

1882.

Total	28	6,727.35	15	3,915.90	3	253.10	10	2,558.35
California	11	3,620.53	8	3,442.91	2	163.33	1	14.29
San Diego	1	18.56			1	18.56		
San Francisco	10	3,601.97	8	3,442.91	1	144.77	1	14.29
Oregon	10	2,699.81	3	286.09	1	89.77	6	2,323.95
Oregon	4	222.86	2	25.38			2	197.48
Willamette	6	2,476.95	1	260.71	1	89.77	4	2,126.47
Washington—Puget sound	7	407.01	4	186.90			3	220.11

1883.

Total	34	4,019.17	27	3,097.03			7	922.14
California—San Francisco	11	2,408.96	10	2,375.23			1	33.73
Oregon	14	878.09	11	438.23			3	439.86
Southern Oregon	1	58.74	1	58.74				
Oregon	9	562.47	7	290.29			2	272.18
Willamette	4	256.88	3	89.20			1	167.68
Washington—Puget sound	9	732.12	6	283.57			3	448.55

TRANSPORTATION ON THE PACIFIC COAST.

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COMPARATIVE STATISTICS—Continued.

TABLE 39.—SHIPBUILDING FOR THE TEN YEARS, STEAMERS, 1880-1889—Continued.

1884.

CUSTOMS DISTRICTS.	METHODS OF PROPULSION.							
	All steamers.		Propeller.		Side-wheel.		Stern-wheel.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total	42	5,865.99	24	1,428.00	6	2,583.37	12	1,854.62
California.....	13	3,963.79	7	860.66	2	2,182.37	4	920.76
San Francisco	12	3,880.32	7	860.66	2	2,182.37	3	837.29
Humboldt	1	83.47					1	83.47
Oregon	15	976.93	10	370.06	4	401.00	1	205.87
Southern Oregon	1	104.50	1	104.50				
Oregon	6	317.01		111.14			1	205.87
Willamette	8	555.42	4	154.42	4	401.00		
Washington—Puget sound	14	925.27	7	197.28			7	727.99

1885.

Total	38	8,867.37	22	3,219.04	5	2,998.51	11	2,649.82
California—San Francisco	14	4,764.02	8	1,773.89	1	1,257.14	5	1,732.99
Oregon	16	3,075.35	10	978.35	3	1,685.64	3	411.36
Southern Oregon	2	208.91	2	208.91				
Oregon	5	347.61	4	317.08			1	30.53
Willamette	9	2,518.83	4	452.36	3	1,685.64	2	380.83
Washington—Puget sound	8	1,028.00	4	466.80	1	55.73	3	505.47

1886.

Total	23	3,023.31	13	1,145.71			10	1,877.60
California	9	2,039.24	4	818.74			5	1,220.50
San Francisco	8	1,981.54	4	818.74			4	1,162.80
Humboldt	1	57.70					1	57.70
Oregon	9	624.86	6	155.88			3	468.98
Oregon	1	33.02	1	33.02				
Willamette	8	591.84	5	122.86			3	468.98
Washington—Puget sound	5	359.21	3	171.09			2	188.12

1887.

Total	32	3,750.45	26	2,720.48	2	347.62	4	682.35
California—San Francisco	12	2,241.14	11	1,932.60	1	308.54		
Oregon.....	14	1,117.48	11	621.26	1	39.08	2	457.14
Southern Oregon	2	174.27	2	174.27				
Yaquina	1	65.49	1	65.49				
Oregon	5	320.77	5	320.77				
Willamette	6	556.95	3	60.73	1	39.08	2	457.14
Washington—Puget sound	6	391.83	4	166.62			2	225.21

STATISTICS OF TRANSPORTATION.

COMPARATIVE STATISTICS—Continued.

TABLE 39.—SHIPBUILDING FOR THE TEN YEARS, STEAMERS, 1880-1889—Continued.

1888.

CUSTOMS DISTRICTS.	METHODS OF PROPULSION.							
	All steamers.		Propeller.		Side-wheel.		Stern-wheel	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total	55	12,710.22	43	7,749.66	3	2,427.60	9	2,532.96
California.....	28	8,683.04	27	6,668.59	1	2,014.45		
San Diego.....	4	745.80	4	745.80				
Wilmington.....	1	36.48	1	36.48				
San Francisco.....	22	7,891.60	21	5,877.15	1	2,014.45		
Humboldt.....	1	9.16	1	9.16				
Oregon.....	17	3,141.59	9	710.48	1	316.46	7	2,114.65
Southern Oregon.....	2	154.89	2	154.89				
Yaquina.....	1	91.56	1	91.56				
Oregon.....	5	238.59	3	120.21			2	118.38
Willamette.....	9	2,656.55	3	343.82	1	316.46	5	1,996.27
Washington—Puget sound.....	10	885.59	7	370.59	1	96.69	2	418.31

1889.

Total.....	71	12,734.30	51	7,163.33	5	1,393.61	15	4,177.36
California.....	34	7,790.70	27	5,914.72	1	119.72	6	1,756.26
San Francisco.....	31	7,551.16	26	5,904.55	1	119.72	4	1,526.89
Humboldt.....	3	239.54	1	10.17			2	229.37
Oregon.....	21	2,873.36	15	701.49	1	659.41	5	1,512.46
Yaquina.....	3	220.11	3	220.11				
Oregon.....	8	427.69	7	329.62			1	98.07
Willamette.....	10	2,225.56	5	151.76	1	659.41	4	1,414.39
Washington—Puget sound.....	16	2,070.24	9	547.12	3	614.48	4	908.64

RECAPITULATION FOR THE TEN YEARS.

Total for 10 years.....	360	68,351.18	241	31,728.75	37	16,133.22	91	20,489.21
1880.....	25	7,642.61	10	402.48	9	5,804.35	6	1,435.78
1881.....	21	3,010.41	10	887.12	4	325.06	7	1,798.23
1882.....	28	6,727.35	15	3,915.90	3	253.10	10	2,558.35
1883.....	34	4,019.17	27	3,097.03			7	922.14
1884.....	42	5,865.99	24	1,428.00	6	2,583.37	12	1,854.62
1885.....	38	8,867.37	22	3,219.04	5	2,998.51	11	2,649.82
1886.....	23	3,023.31	13	1,145.71			10	1,877.60
1887.....	32	3,750.45	26	2,720.48	2	347.62	4	682.35
1888.....	55	12,710.22	43	7,749.66	3	2,427.60	9	2,532.96
1889.....	71	12,734.30	51	7,163.33	5	1,393.61	15	4,177.36

CONGRESSIONAL APPROPRIATIONS.

TABLE 40.—CONGRESSIONAL APPROPRIATIONS FOR THE SURVEY, IMPROVEMENT, AND MAINTENANCE OF RIVERS AND HARBORS ON THE PACIFIC COAST, BY PERIODS, FROM THE EARLIEST DATE OF APPROPRIATION TO 1890, INCLUSIVE, BY LOCALITIES.

LOCALITIES.	Date of earliest appropriation.	Appropriations up to and including 1879	Appropriations from 1880 to 1889, inclusive.	Appropriations by act of Congress September 19, 1890.	Total appropriations up to date.
Total	1852	\$2,315,000	\$5,527,200	\$2,122,600	\$9,964,800
General expenses and surveys	1866	50,000			50,000
California	1852	1,158,000	2,283,750	596,500	4,038,250
Oregon	1866	1,107,000	3,164,950	1,493,100	5,765,050
Washington	1880		78,500	33,000	111,500
California:					
Humboldt harbor	1881		80,000		80,000
	1884		62,500		62,500
	1886		75,000		75,000
	1888		125,000		125,000
	1890			80,000	80,000
Total for Humboldt harbor	1881		342,500	80,000	422,500
Oakland harbor	1874	415,000			415,000
	1880		120,000		120,000
	1882		200,000		200,000
	1884		139,600		139,600
	1886		60,000		60,000
	1888		350,000		350,000
	1890			250,000	250,000
Total for Oakland harbor	1874	415,000	869,600	250,000	1,534,600
Petaluma river	1880		16,000		16,000
	1882		14,000		14,000
	1888		2,000		2,000
	1890			4,000	4,000
Total for Petaluma river	1880		32,000	4,000	36,000
Sacramento and Feather rivers	1875	50,000			50,000
	1880		45,000		45,000
	1881		60,000		60,000
	1882		250,000		250,000
	1884		40,000		40,000
	1888		20,000		20,000
	1890			30,000	30,000
Total for Sacramento and Feather rivers	1875	50,000	415,000	30,000	485,000
San Diego harbor and river (survey of San Diego and Newport)	1852	111,000			111,000
	1886		5,000		5,000
	1888		1,000		1,000
	1890			60,500	60,500
Total for San Diego harbor and river	1852	111,000	6,000	60,500	177,500
San Francisco harbor	1872	75,000			75,000
	1886		11,000		11,000
Total for San Francisco harbor	1872	75,000	11,000		86,000
San Joaquin river	1876	20,000			20,000
	1880		20,000		20,000
	1881		80,000		80,000
	1884		20,000		20,000
	1886		18,750		18,750
	1888		25,000		25,000
	1890			75,000	75,000
Total for San Joaquin river	1876	20,000	163,750	75,000	258,750
San Luis Obispo harbor	1888		25,000		25,000
	1890			40,000	40,000
Total for San Luis Obispo harbor	1888		25,000	40,000	65,000

STATISTICS OF TRANSPORTATION.

CONGRESSIONAL APPROPRIATIONS—Continued.

TABLE 10.—APPROPRIATIONS FOR PACIFIC COAST, BY LOCALITIES—Continued.

LOCALITIES.	Date of earliest appropriation.	Appropriations up to and including 1879.	Appropriations from 1880 to 1889, inclusive.	Appropriations by act of Congress September 19, 1890.	Total appropriations up to date.
California—Continued.					
Wilmington harbor.....	1879	\$487,000	—	—	\$487,000
	1880	—	\$35,000	—	35,000
	1881	—	33,000	—	33,000
	1882	—	100,000	—	100,000
	1884	—	50,000	—	50,000
	1886	—	75,000	—	75,000
	1888	—	90,000	—	90,000
	1890	—	—	\$34,000	34,000
Total for Wilmington harbor.....	1879	487,000	383,000	34,000	904,000
Mokelumne river.....	1884	—	8,500	—	8,500
	1886	—	2,500	—	2,500
	1888	—	2,000	—	2,000
Total for Mokelumne river.....	1884	—	13,000	—	13,000
Napa river.....	1888	—	7,500	—	7,500
	1890	—	—	10,000	10,000
Total for Napa river.....	1888	—	7,500	10,000	17,500
Redwood harbor.....	1884	—	3,000	—	3,000
	1886	—	5,000	—	5,000
	1888	—	7,400	—	7,400
Deep water harbor survey (\$5,000).....	1890	—	—	13,000	13,000
Total for Redwood harbor.....	1884	—	15,400	13,000	28,400
Total for Humboldt harbor.....	1881	—	342,500	80,000	422,500
Total for Oakland harbor.....	1874	415,000	869,600	250,000	1,534,600
Total for Petaluma river.....	1880	—	32,000	4,000	36,000
Total for Sacramento and Feather rivers.....	1875	50,000	415,000	30,000	495,000
Total for San Diego harbor and river.....	1852	111,000	6,000	60,500	177,500
Total for San Francisco harbor.....	1872	75,000	11,000	—	86,000
Total for San Joaquin river.....	1876	20,000	163,750	75,000	258,750
Total for San Luis Obispo harbor.....	1888	—	25,000	40,000	65,000
Total for Wilmington harbor.....	1879	487,000	383,000	34,000	904,000
Total for Mokelumne river.....	1884	—	13,000	—	13,000
Total for Napa river.....	1888	—	7,500	10,000	17,500
Total for Redwood harbor.....	1884	—	15,400	13,000	28,400
Total for California.....	1852	1,158,000	2,283,750	596,500	4,038,250
Oregon:					
Coos bay.....	1879	40,000	—	—	40,000
	1881	—	90,000	—	90,000
	1886	—	33,750	—	33,750
	1888	—	50,000	—	50,000
	1890	—	—	125,000	125,000
Total for Coos bay.....	1879	40,000	173,750	125,000	338,750
Willamette (upper) and Yamhill.....	1871	84,500	—	—	84,500
	1880	—	12,000	—	12,000
	1881	—	15,000	—	15,000
	1882	—	5,000	—	5,000
	1884	—	10,000	—	10,000
	1886	—	10,000	—	10,000
	1888	—	29,000	—	29,000
	1890	—	—	11,000	11,000
Total for Willamette and Yamhill.....	1871	84,500	81,000	11,000	176,500

CONGRESSIONAL APPROPRIATIONS—Continued.

TABLE 40.—APPROPRIATIONS FOR PACIFIC COAST, BY LOCALITIES—Continued.

LOCALITIES.	Date of earliest appropriation.	Appropriations up to and including 1879.	Appropriations from 1880 to 1889, inclusive.	Appropriations by act of Congress September 19, 1890.	Total Appropriations up to date.
Oregon—Continued.					
Willamette (lower) and Columbia	1866	\$300,000			\$300,000
	1880		\$45,000		45,000
	1881		45,000		45,000
	1882		100,000		100,000
	1884		100,000		100,000
	1886		75,000		75,000
	1888		100,000		100,000
	1890			\$100,000	100,000
Total for Willamette and Columbia	1866	300,000	465,000	100,000	865,000
Total for Willamette and Yamhill	1871	84,500	81,000	11,000	176,500
Total for Willamette, Columbia, and Yamhill	1866	384,500	546,000	111,000	1,041,500
Columbia (upper) and Snake rivers	1872	160,000			160,000
	1880		15,000		15,000
	1881		15,000		15,000
	1882		6,000		6,000
	1884		20,000		20,000
	1886		10,000		10,000
	1888		10,000		10,000
	1890			90,000	90,000
Total for Columbia and Snake rivers	1872	160,000	76,000	90,000	326,000
Columbia at Cascades	1876	340,000			340,000
	1880		200,000		200,000
	1882		265,000		265,000
	1884		150,000		150,000
	1886		187,000		187,000
	1888		300,000		300,000
	1890			435,000	435,000
Total for Columbia at Cascades	1876	340,000	1,102,000	435,000	1,877,000
Lower Columbia and tributaries	1882		500		500
	1884		2,000		2,000
	1888		2,500		2,500
Total for lower Columbia and tributaries	1882		5,000		5,000
Lower Columbia at mouth	1878	10,000			10,000
	1882		7,500		7,500
	1884		100,000		100,000
	1886		187,500		187,500
	1888		500,000		500,000
	1890			475,000	475,000
Total for lower Columbia at mouth	1878	10,000	795,000	475,000	1,280,000
Total for upper Columbia and Snake rivers	1872	160,000	76,000	90,000	326,000
Total for Columbia at Cascades	1876	340,000	1,102,000	435,000	1,877,000
Total for lower Columbia and tributaries	1882		5,000		5,000
Total for Columbia and tributaries	1872	510,000	1,978,000	1,000,000	3,488,000
Yaquina bay	1880		40,000		40,000
	1881		10,000		10,000
	1882		60,000		60,000
	1884		50,000		50,000
	1886		75,000		75,000
	1888		150,000		150,000
	1890			165,000	165,000
Total for Yaquina bay	1880		385,000	165,000	550,000
Tillamook bay	1888		5,200		5,200
	1889			500	500
Total for Tillamook bay	1888		5,200	500	5,700
Nehalem bay and river	1880			10,000	10,000
Harbor of refuge at Port Orford	1889	150,000			150,000

STATISTICS OF TRANSPORTATION.

CONGRESSIONAL APPROPRIATIONS—Continued.

TABLE 40.—APPROPRIATIONS FOR PACIFIC COAST, BY LOCALITIES—Continued.

LOCALITIES.	Date of earliest appropriation.	Appropriations up to and including 1879.	Appropriations from 1880 to 1889, inclusive	Appropriations by act of Congress September 19, 1890.	Total appropriations up to date.
Oregon—Continued.					
Coquille river.....	1880		\$30,000		\$30,000
	1886		20,000		20,000
	1888		25,000		25,000
	1890			\$30,000	30,000
Total for Coquille river.....	1880		75,000	30,000	105,000
Umpqua river.....	1871	\$22,500			22,500
	1888		2,000		2,000
Total for Umpqua river.....	1871	22,500	2,000		24,500
Siuslaw river.....	1890			50,000	50,000
Youngs and Klaskanine rivers.....	1890			1,600	1,600
Total for Coos bay.....	1879	40,000	173,750	125,000	338,750
Total for Willamette, Columbia, and Yamhill.....	1866	384,500	546,000	111,000	1,041,500
Total for Columbia and tributaries.....	1872	510,000	1,978,000	1,030,000	3,488,000
Total for Yaquina bay.....	1880		385,000	165,000	550,000
Total for Tillamook bay.....	1888		5,200	500	5,700
Total for Nehalem bay and river.....	1890			10,000	10,000
Total for harbor of refuge at Port Orford.....	1879	150,000			150,000
Total for Coquille river.....	1880		75,000	30,000	105,000
Total for Umpqua river.....	1871	22,500	2,000		24,500
Total for Siuslaw.....	1890			50,000	50,000
Total for Oregon.....	1866	1,107,000	3,164,950	1,493,100	5,765,050
Washington:					
Cowlitz river.....	1880		2,000		2,000
	1881		1,000		1,000
	1882		1,000		1,000
	1884		2,000		2,000
	1886		2,000		2,000
	1888		3,000		3,000
	1890			8,000	8,000
Total for Cowlitz river.....	1880		11,000	8,000	19,000
Tributaries:					
Skagit river.....	1880		2,500		2,500
Skagit and Snohomish rivers.....	1882		20,000		20,000
Stillaguamish, Skagit, and Nooksachk rivers.....	1884		10,000		10,000
Snohomish and Nooksachk rivers.....	1886		10,000		10,000
Skagit, Snohomish, and Nooksachk rivers.....	1888		15,000		15,000
For all rivers.....	1890			12,000	12,000
Total for tributaries.....	1880		57,500	12,000	69,500
Total for Cowlitz river.....	1880		11,000	8,000	19,000
Total for Cowlitz river and tributaries.....	1880		68,500	20,000	88,500
Chehalis river.....	1882		3,000		3,000
	1884		5,000		5,000
	1888		2,000		2,000
	1890			3,000	3,000
Total for Chehalis river.....	1882		10,000	3,000	13,000
Canal from Lake Union to Puget sound.....	1890			10,000	10,000
Total for Cowlitz river and tributaries.....	1880		68,500	20,000	88,500
Total for Chehalis river.....	1882		10,000	3,000	13,000
Total for Washington.....	1880		78,500	33,000	111,500

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DEPARTMENT OF THE INTERIOR,
CENSUS OFFICE.

ROBERT P. PORTER,
Superintendent.

Appointed April 20, 1889; resigned July 31, 1893.

CARROLL D. WRIGHT,
Commissioner of Labor in charge.
Appointed October 5, 1893.

REPORT

ON

TRANSPORTATION BUSINESS

IN

THE UNITED STATES

AT THE

ELEVENTH CENSUS: 1890.

THE PACIFIC COAST.

HENRY C. ADAMS,

SPECIAL AGENT.



WASHINGTON, D. C.:
GOVERNMENT PRINTING OFFICE.
1893.

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LETTER OF TRANSMITTAL.

DEPARTMENT OF THE INTERIOR,
CENSUS OFFICE,
WASHINGTON, D. C., December 6, 1893.

SIR:

I have the honor to transmit herewith the report of transportation on the Pacific coast, exclusive of Alaska. The year of the report is that which ended December 31, 1889, it having been made the period for which the reports on the industry of transportation by water were secured for all sections of the country. It was found impossible to secure returns for the fiscal year ending June 30, 1890, no such period of accounting being followed in the principal centers of transportation, while in such localities as the Great Lakes and the upper waters of the Mississippi valley the period of accounting is the period of navigability bounded by the formation and breaking up of the ice.

It is learned from the report that the vessels owned on the Pacific coast, exclusive of Alaska, numbered 1,842, having a gross tonnage of 441,939 tons, and an estimated value of \$23,067,370. The traffic of that portion of the Pacific coast fleet engaged in the transportation of freight and passengers amounted to the movement of 8,818,363 tons of freight and 4,019,329 passengers, these figures being exclusive of the freight and passengers carried on railroad ferryboats. Of the 8,818,363 tons of freight, 5,634,151 tons constituted what may be called "local" business; 2,372,825 tons formed the coastwise traffic; 5,550 tons were carried on vessels plying between Atlantic and Pacific domestic ports; 707,085 tons were carried on vessels plying to foreign ports; and 98,752 tons formed the trade between Pacific coast ports and points in Alaska and on the Bering sea. The distance covered in the movement of the 8,818,363 tons of freight amounted to 12,273,515 miles, an average movement per ton of 1.39 miles.

Among the economic points presented in the report are the following: the gross earnings of the entire operated fleet of the Pacific coast vessels amounted to \$20,628,316 and the expenses to \$17,274,809, leaving the net earnings at \$3,353,507. The largest figure in the expense account was that of wages, \$6,127,451, that amount having been paid out in the employment of 33,656 men, of whom only 5,074 were reported as being native born citizens of the United States. So far as material of construction is concerned, it would seem that iron and steel are not yet largely used on the Pacific coast, only 25 of the entire fleet of sailing vessels and steamers having been built of these materials, while vessels of composite construction are almost unknown. The iron and steel vessels are, however, of unusually large tonnage.

The statistics of the report were gathered and prepared for publication by Mr. Thomas J. Vivian, in charge of statistics of transportation, under the general direction of Prof. Henry C. Adams, special agent.

Very respectfully,

CARROLL D. WRIGHT,
Commissioner of Labor in charge.

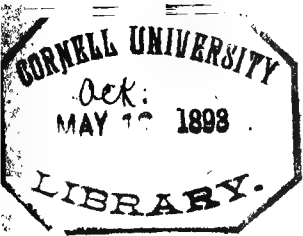
The SECRETARY OF THE INTERIOR.

INTRODUCTION.

BY HENRY C. ADAMS.

The title of the present report is "Transportation on the Pacific coast, exclusive of Alaska". The statistics which are embraced in it were secured from schedules sent to the owners and managers of vessels, supplemented by the work of Mr. Thomas J. Vivian, acting as special agent for the Pacific coast. A very small proportion of the schedules when first returned contained all the requisite information, and by far the greater portion of the facts and figures were secured from personal investigation in the various ports of Washington, Oregon, and California. The compilation of the statistics and the preparation of the text accompanying this report are also the work of Mr. Vivian, in charge of statistics of transportation.

The vessels whose equipment, value, and operations are treated of are only those registered or owned in Pacific coast ports, and the statistics show that the industry of transportation by water in this section of the country forms a steadily growing factor in the nation's carrying trade. Coasting trade has, perhaps, been somewhat retarded by the lack of full commercial facilities, but these are being enlarged from year to year. The same relation does not exist between the statistics of the present exhibit and the transportation business of western railroads that is found between the carrying business on the Great Lakes and rivers of the Mississippi valley and the railroads of the central, eastern, and southern states, because the lines of competition are not as distinctly drawn. The details of commodities moved and the length of water haul, the tabulations which indicate the increasing centralization of commerce about Puget sound, the Columbia river, and San Francisco bay, together with the figures of crews and wages, and of earnings and expenses, will be found of much commercial interest.



DEPARTMENT OF THE INTERIOR,
CENSUS OFFICE.

ROBERT P. PORTER, Superintendent.

REPORT

ON

TRANSPORTATION BUSINESS

IN

THE UNITED STATES

AT THE

ELEVENTH CENSUS: 1890.

RIVERS OF THE MISSISSIPPI VALLEY.

HENRY C. ADAMS,

SPECIAL AGENT.



WASHINGTON, D. C.:
GOVERNMENT PRINTING OFFICE.
1892.

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LETTER OF TRANSMITTAL.

DEPARTMENT OF THE INTERIOR,
CENSUS OFFICE,
WASHINGTON, D. C., October 31, 1892.

SIR: The present report presents the statistics of transportation of freight and passengers on all the rivers making up the great fluvial system of the Mississippi valley. In common with the reports on the industry in all sections of the country the year of this report was made that which ended December 31, 1889. The reasons for reporting on the year mentioned are, that it was found impossible to secure reports for the fiscal year ended June 30, 1890, no such period of accounting being indicated in the principal centers of transportation, while in such important localities as the Great Lakes and the upper waters of the Mississippi valley the period of accounting is the season of navigability, bounded by the formation and breaking up of the ice, and to have waited until the close of the navigation season of 1890 would too seriously have delayed the work of securing returns.

The figures of this report are quite interesting and in some respects unexpected. They show, for instance, that the fleet of the Mississippi valley consisted of 1,114 steamers, with a tonnage of 210,772 tons and a value of \$10,539,251, and 6,339 unrigged craft, with a tonnage of 3,182,608 tons and a value of \$4,795,754. In all probability this valuation, which is the estimated commercial appraisement by vessel owners, is short of the actual figures by some 30 per cent, which would raise the real value of the Mississippi fleet to \$21,907,150. The unrigged fleet was used almost entirely in the transportation of freight, the towed freight amounting to 19,059,542 tons out of a total of 29,405,046 tons. The figures of towed freight are not only interesting in themselves but taken in connection with other statistics of a comparative nature they show from first to last that there has been a steady decrease in the freight-carrying steamer fleet, with a more than corresponding increase of the use of freight-carrying barges. This decrease in the number of the Mississippi valley steamers must not, however, be regarded as an indication of a waning industry, but rather, when taken in connection with the increased number and value of the unrigged, as a proof that the new methods of transportation are yearly growing in the extent of their adoption. No better example of this changing method of transportation can be found than that which is presented in some of the tables of comparative statistics of this report. One of them, for instance, which gives the statistics for 1880 and 1889, shows that there were registered in the ports of the Mississippi valley in 1880 1,198 steamers, which had a tonnage of 251,793 tons, while in 1889 the registered steamers numbered 1,114, with a tonnage of 210,772 tons, a decrease of 84 steamers and of 41,021 tonnage tons. On the other hand, it will be found that while in 1880 the unrigged craft of the valley numbered 3,854, with a tonnage of 909,824 tons, the unrigged in 1889 had risen to 6,339, with a tonnage of 3,183,608 tons, an increased number of 2,485 and an increased tonnage of 2,272,784 tons.

Not only has the decade been marked by changes in the methods of transportation but it has also seen the development of new areas and interests, the trade of the valley having received accessions from the opening up of 2,849 additional navigable miles of waterways, the development of many thousands of square miles of hitherto unutilized land, the exploitation of rich mines hitherto lying idle, and the continuation of low rates which otherwise would have been so high as to seriously embarrass, if not practically close, the movement of traffic.

This report has been prepared, under the general direction of Mr. Henry C. Adams, special agent, by Mr. Thomas J. Vivian, in charge of statistics of transportation, and I have much pleasure in calling your attention to the intelligence and thoroughness which have marked its preparation.

Very respectfully,

ROBERT P. PORTER,
Superintendent of Census.

The SECRETARY OF THE INTERIOR.

INTRODUCTION.

BY HENRY C. ADAMS.

The plan followed in the investigation, which resulted in the following report, was the same as that adopted for all statistics of transportation by water.

After procuring as accurate a mailing list as possible, comprising the names and addresses of owners and managers of vessels, schedules were issued asking such questions as met the requirements of the census inquiry. Vessels and not firms were made the units of investigation. Something less than half of the schedules thus sent out were returned with appropriate answers, and after examination and correction were filed for compilation. After all the information had been secured by means of schedules that it was possible to secure, special agents were sent out with instructions to obtain reports for delinquent vessels. It is to these field agents that the success of the investigations into the statistics of water transportation is largely due; and the services of Mr. Nathan Patterson, to whom was assigned the Upper Mississippi and tributaries, and to Mr. T. C. Purdy, to whom was assigned the Ohio and its tributaries, are worthy of special mention.

The compilation of all the statistics gathered from these and other channels was done under the immediate direction of Mr. Thomas J. Vivian, in charge of statistics of transportation. The text accompanying this report was also prepared by Mr. Vivian, and is so full and exhaustive that no word from me is necessary either to explain the tables found in the body of the report or to call attention to points of special interest.

There are three reasons why the commercial facts pertaining to inland navigation are of importance. They are needed, in the first place, for a complete exhibit of the nation's carrying trade and for the accurate measurement of the business of transportation, which is one object that Congress held in mind when providing for the creation of the Census Bureau. They show, in the second place, taken in connection with railway statistics, the relative use made of rivers and of railways in transporting passengers and freight, and in this manner throw light upon the question of the appropriateness of granting public moneys for the improvement of the fluvial system. In this connection it may be interesting to note that the total appropriations for the improvement of the Mississippi valley waterways up to and including the year 1890 has been \$76,827,463, as shown by Table 29, in the body of the report. In the third place, the facts presented in this report are important because they bear directly on the disputed question of the extent to which railway rates are affected by competition of waterways. It is significant, for example, to learn that out of 7,770,000 tons of freight on the Ohio river and tributaries, 5,150,000 tons are accounted for by coal and lumber.

The complete investigation into the statistics of water transportation embraces not only the river systems of the country but traffic on the Great Lakes and Atlantic and Pacific coasts.

TRANSPORTATION ON THE RIVERS OF THE MISSISSIPPI VALLEY.

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TRANSPORTATION ON THE RIVERS OF THE MISSISSIPPI VALLEY.

BY THOMAS J. VIVIAN.

The rivers from which statistics of the transportation of freight and passengers have been secured for this report for the year ended December 30, 1889, are, roundly speaking, the Mississippi, the Missouri, and the Ohio, with their respective tributaries. A single entry has been made of the Red River of the North because of its geographical location. In grouping these streams according to what may be called commercial divisions, the Mississippi has been divided into the Upper and Lower Mississippi, with Saint Louis as the dividing point, and with the Missouri set down as one of the tributaries of the Upper Mississippi, while the Ohio has been separately considered. In the census report for 1880 a somewhat different division was carried out. The Mississippi was similarly divided and the Ohio was also treated separately, but the Missouri and its tributaries were given an individual report, and also included the business of the Red River of the North. These differing divisions are not allowed, however, to stand as difficulties in comparison, because in all the comparative tables which are presented in this report the returns for 1889 are grouped to correspond with the returns for 1880, a statement which will explain certain other differences which appear between the 1889 returns in the comparative tables for 1880 and 1889 and those which present the positive business of the latter year.

The tributaries which are put down in the 1889 tables as belonging to the 3 divisions of the Upper Mississippi, the Lower Mississippi, and the Ohio are those from which the principal reports of transportation have been made. Thus, the rivers which are considered as being the chief commercial tributaries of the Upper Mississippi, and which make up what is styled the Upper Mississippi system, are the Saint Croix, the Chippewa, the Illinois, the Missouri, the Osage, and the Gasconade. Those which make up the Lower Mississippi system are the White, the Arkansas, the Yazoo, the Washita, and the Red; and those which make up the Ohio system are the Allegheny, the Monongahela, the Muskingum, the Little Kanawha, the Great Kanawha, the Big Sandy, the Kentucky, the Green, the Wabash, the Cumberland, and the Tennessee. It is not to be understood from this that these are the only streams on which a transportation business was done in 1889 or from which a report of operations was received, but only as being convenient and comprehensive streams whose names are sufficiently indicative of their district. The report of the Monongahela, for example, includes all that was done on itself, the Cheat, and the Buckhannon; and the report of the Tennessee includes the business done on itself, the Clinch, the Hiwassee, the Caney fork, and the French Broad. The list of these tributaries and subtributaries on which a transportation business was done in 1889 is such a long one that a separate report from each would be too bulky and intricate for present statistical purposes, but those curious in the matter can refer to the tables and diagram printed with that portion of this report which refers to congressional appropriations made for all the navigable streams of the Mississippi valley, and to that portion of this text in which these tables and diagram are explained at length.

RIVERS OF ORIGIN.

Perhaps no better place can be found than this in which to state that while Saint Louis is styled the dividing point between the Upper and Lower Mississippi, the business of that port is allotted as follows: the business of the vessels coming into that port over the Upper Mississippi or the Ohio is credited respectively to those rivers; but all the business of the vessels leaving that port for any river is credited to the Lower Mississippi, as is the business of those vessels trading locally at that port. This is done in pursuance of the plan which has been adopted to credit to every stream wherever possible such business as has its origin thereon, no matter whether the finality of the operation was on that stream or some other; that is, a steamer carrying freight from Pittsburg to Saint Louis is credited as an operating craft on the Ohio, as is of course a steamer trading between Pittsburg and Cincinnati. In the same way the operations of a steamer trading between Burlington and Saint Louis are credited to the Upper Mississippi, while those of a steamer trading between Saint Louis and New Orleans, or between Vicksburg and Natchez, are credited to the Lower Mississippi. This plan has been adopted in order to avoid any duplication of freight movement, a duplication which would surely occur unless some such plan of allotment was made out and adhered to wherever possible, and of which more will be said when treating of the subject of freight movement by commodities.

In grouping the operations of the steamers constituting the fleet of the Mississippi valley it has been thought better to depart from the plan followed in the report of the vessels belonging to coast ports, and to segregate the returns according to the rivers over which their operations were conducted. The distribution of the steamers according to the rivers of operations is as follows:

STEAMERS, BY LOCALITY OF OPERATION.

Red River of the North.....	4	Chippewa.....	1
Saint Croix.....	15	Missouri, Osage, and Gasconade.....	52
Illinois.....	9	Allegheny.....	6
Ohio.....	380	Muskingum.....	7
Monongahela.....	48	Great Kanawha.....	21
Little Kanawha.....	5	Kentucky.....	5
Big Sandy.....	8	Wabash.....	3
Green.....	5	Tennessee.....	32
Cumberland.....	17	White.....	5
Lower Mississippi.....	265	Yazoo.....	11
Arkansas.....	15	Red.....	9
Washita.....	3		
Upper Mississippi.....	188	Total.....	1, 114

The distribution of the steamers according to their districts of registration is as follows:

STEAMERS, BY LOCALITY OF REGISTRATION.

New Orleans.....	126	Memphis.....	71
Vicksburg.....	30	Paducah.....	53
Chattanooga.....	22	Saint Louis.....	115
Louisville.....	52	Saint Joseph.....	6
Kansas city.....	16	Burlington.....	43
Omaha.....	13	Minnesota (a).....	46
Dubuque.....	28	Galena.....	27
Lacrosse.....	47	Cincinnati.....	115
Evansville.....	54	Pittsburg.....	152
Wheeling.....	94		
Natchez.....	4	Total.....	1, 114

a Includes the ports of Saint Vincent (on the Red River of the North) and Saint Paul.

Having thus given in broad and general outline an indication of the plan of the present report, the next proceeding will be one of review, and will be taken in order to get back to the days of early transportation on the rivers of the Mississippi valley. The material for this review is abundantly found in the text of the Tenth Census report on steam navigation in the United States, and it is from this full presentation of facts that the following condensation has been made:

EARLY NAVIGATION.

Previous to 1778 the Ohio river was not navigated to any extent in the interests of commerce. Troops and war material of the French were moved from point to point on flatboats, and colonists moving to Kentucky would float down to their destination from Fort Pitt (now Pittsburg) on rafts or flats, as the case demanded. In the month of January, 1778, Captain Willing, acting as agent for the Continental army, took 2 large flatboats loaded with produce to New Orleans, where he exchanged it for arms, ammunition, and stores, and he reached Fort Pitt on his return voyage, bringing up his goods and some 50 men besides. From this time the traffic with the Lower Mississippi was kept up and Pittsburg was soon known as an important trading post. Immigration began then to pour into the Ohio valley, and the navigation of the river increased rapidly. Besides the great variety of small craft and rude arks, numerous well-built keel boats, barges, and some seagoing vessels were soon used in conveying the products of the rich region down the Mississippi, where it found a market and was exchanged for merchandise and West India products. It is stated that as late as 1817 the products of the Mississippi valley arrived at New Orleans in 1,500 barges and 500 flats, but no statistics of this commerce were kept at that early date.

In 1811 Fulton and Livingston began the construction of a steamboat at Pittsburg. She was called the Orleans, and was completed that year, making her first voyage down the river and arriving at New Orleans January 10, 1812. It was found a difficult matter to stem the strong current of the lower river, and this was not practically accomplished until about 1814. Within the next 10 years, however, there were built at Pittsburg 30 steamers, measuring 5,698.78 tons; and from 1815, the date of the first steamer at Louisville, up to 1825, 35 steamers, measuring 6,032.26 tons, were launched at that port and vicinity. The first steamer built at Louisville was called the Kentucky. She measured 112 tons, and, according to the record, came out in 1815. The next was the Governor Shelby, of 106.25 tons burden, built in 1817.

From 1817 to 1827 there were built at Cincinnati 52 steamers, measuring 9,306.61 tons. The Vesta, of 203.01 tons, came out in 1817, and was followed the next year by the Eagle, of 118.49 tons; the Heckla, of 124.25 tons; the

Henderson, of 123.17 tons, and the Cincinnati, of 157.38 tons. Besides these 4 steamers built at Cincinnati in 1818, there were 4 at Louisville, measuring 1,106.46 tons; 5 at Pittsburg, measuring 1,226.48 tons, and 1 at Wheeling, of 140.31 tons. In 1819 there were 12 steamers built at Louisville, measuring 2,375.93 tons; 6 at Cincinnati, measuring 1,551.01 tons; 2 at Pittsburg, measuring 501.71 tons; 1 at Wheeling, of 224.51 tons, and 2 at New Orleans, measuring 662.50 tons. The growth of steamer building on the western rivers was remarkably rapid and exceeded that on the Atlantic coast by a large amount in tonnage, for it is found that in 1820, according to these records, there had been built on the rivers 71 steamers, measuring 14,207.53 tons, as against 52 steamers on the Atlantic coast (exclusive of New England coast), measuring 10,564.43 tons. On July 27, 1820, a writer in a Louisville paper enumerated 73 steamers belonging to western navigation, and there were several on the stocks above the Falls of the Ohio and 2 at New Orleans. Estimating the freight actually carried by each boat at 150 tons, and an average of 3 trips annually, he placed the up-steamer freight at 33,300 tons, while the down freight exceeded this figure. The up freight by flatboats and arks would double this amount, so that 100,000 tons about represented the upward movement. Freights ranged from 1.5 to 2 cents per pound from New Orleans to Louisville, and the amount paid on this up freight by steamers was at that date \$1,332,000, taking the last-named rate as the average. Down freights by steam were estimated at \$666,000. The passenger traffic both ways, calculating 10 to a boat, at \$100 up and \$50 down, was placed at \$333,000, so that the total income from passengers and freight on steamers was estimated at \$2,331,000, to which was added \$500,000 for lower river traffic. Some 3 years previous to this date it is stated there were only 30 steamers navigating the western waters. Great expectations were at this early date raised with regard to the commerce of New Orleans, since goods could be placed by it in any part of the Ohio valley for \$2.50 to \$3 per 100 pounds, while it cost nearly twice these sums to freight merchandise through from eastern seaboard cities. That New Orleans did not gain and hold the trade at that time was attributable to the superior capital and commercial character of the eastern merchants and to the dangerous nature of river navigation at that early date. New Orleans was never an extensive building point. In 1817 the Harriet, of 54.46 tons, was built there, and she was followed the next year by the Louisiana, of 102.54 tons. In 1819 New Orleans is credited with building 2 steamers, measuring 662.50 tons, and in 1820 with 6 steamers, measuring 1,034.12 tons; in 1821, 1 steamer, of 46.53 tons, and in 1822, 4 small boats, measuring only 296.67 tons. Pittsburg, Cincinnati, and Louisville were the leading building points.

From 1820 till the breaking out of the civil war, and up to 1865, when rail communication came into competition with the river interests, the progress of steam navigation on the lower river was rapid and extensive; in fact, the palmy days of steamboating on the Lower Mississippi were from 1840 to 1859, when the country had become populous and railroads had not yet come into active competition.

TRADE BEGINNINGS AT SAINT LOUIS.

Saint Louis was selected by Laclède in 1764 as a point possessing peculiar advantages for the fur trade from the confluence of the different rivers in its neighborhood. The statistics for 16 years previous to 1805 show that the average annual value of the furs collected at this place amounted to \$303,750. The population at this date was estimated at 1,500, more than one-half of whom were absent a greater part of the year engaged in trapping. In 1810 the population was 1,600. In 1820 the census showed that the population had increased to 4,598; in 1830 to 5,852, and in 1840 to 16,469. The first steamboat, the Antelope, arrived here in 1817, on her way to explore the great Missouri. In 1845 a committee of 8 citizens prepared a report on the business of Saint Louis, from which it appears that during the year 1845 there were 2,050 steamboat arrivals in the harbor of Saint Louis, with an aggregate tonnage of 358,045 tons, and 346 keel and flat boats. Of these steamers 250 came up from New Orleans; 406 from different ports on the Ohio river, including arrivals from the Cumberland and Tennessee; 298 from ports on the Illinois river; 643 from ports on the Mississippi above the mouth of the Missouri, not including the daily trip of the Alton packet; 249 from ports on the Missouri river, and 204 from other ports, chiefly from Cairo and intermediate ports. At this date, 1845, the tonnage on the rivers, as reported at the different ports, was as follows:

	TONS.
Pittsburg.....	9,233
Wheeling.....	1,340
Pearl river	378
New Orleans.....	19,321
Saint Louis.....	16,664
Nashville	5,666
Louisville	7,114
Cincinnati.....	13,137
Total	72,853

ON THE UPPER MISSISSIPPI.

The first steamboat that ascended the Upper Mississippi as far as Fort Snelling, near the Falls of Saint Anthony, was the Virginia, a stern-wheel boat, which arrived at the fort in the early part of May, 1813. From 1823 to 1844 there were but few arrivals each year, sometimes not more than 2 or 3. The steamers running on the

Upper Mississippi at that time were used altogether to transport supplies for the Indian traders and the troops stationed at Fort Snelling. Previous to the arrival of the Virginia keel boats were used for this purpose, and 60 days' time from Saint Louis to the fort was considered a good trip. In 1844 the country had become settled enough to warrant the introduction of a regular line, and the Otter was put upon the route from Saint Louis to Saint Paul. The next year the Lynx and the Argo followed, and in 1847 came the Senator.

In 1851 3 boats went up the Minnesota river, and in 1852 1 ran regularly up that stream during the season. In 1853 the business required an average of 1 per day.

The following table shows the number of arrivals at Saint Paul from 1844 to 1856, including those from above and below, with date of opening and closing of the river:

YEARS.	Date of first arrival.	Number of arrivals.	River closed.
1844.....	April 6	41	November 23
1845.....	do	48	November 26
1846.....	March 31	24	December 5
1847.....	April 7	47	November 29
1848.....	do	63	December 4
1849.....	April 9	35	December 7
1850.....	do	104	December 4
1851.....	April 4	119	November 28
1852.....	April 16	171	November 18
1853.....	April 11	300	November 30
1854.....	April 8	215	November 27
1855.....	April 18	560	November 20
1856.....	do	846	November 10

In 1856 the arrivals at Saint Paul were as follows:

From Saint Louis.....	212
From Fulton city.....	28
From Galena and Duluth.....	228
From Dubuque.....	134
From Minnesota.....	216
From head of Lake Pepin.....	28
Total.....	846

About the same time a thriving trade sprang up between the southern counties of Minnesota and Galena and Dubuque. During a portion of the summer the War Eagle and Tishomingo ran regularly to Winona. Above, on the Upper Mississippi, the 3 steamers, Governor Ramsey, H. M. Rice, and North Star, ran between Saint Anthony and Sauk Rapids.

EARLY DAYS ON THE MISSOURI.

The first steamboat that navigated the Upper Missouri was built at Pittsburg by the American Fur Company in the spring of 1831, and was called the Yellowstone. She was a staunch boat, with side wheels, and had her cabin on the same deck with the boilers. Commanded by Captain Bennett, she made her first trip during the summer of 1831 to Fort Pierre, whence she returned to Saint Louis for the winter. During the summer of 1832 she made her second trip, reaching Fort Union, near the mouth of the Yellowstone river. The second boat was built by the American Fur Company and called the Assiniboine. She made her first trip in 1833, ascending to Fort Union, a few miles above the mouth of the Yellowstone river, whence she returned safely to Saint Louis. This boat made another trip in 1834, and in 1835 ascended as far as the mouth of Poplar creek, some 60 miles above the mouth of the Yellowstone. She was caught by the fast-falling water and was obliged to winter there. The following spring she took on a very valuable cargo of furs and started for Saint Louis. When she had reached Heart river, near where Fort Lincoln is situated, she was burned with her entire cargo.

For the 12 or 15 years following the American Fur Company did all of the steamboating that was done above Kanesville (now Council Bluffs), Iowa, making such improvements on their boats as experience suggested. Many efforts were made to ascend the Missouri river higher than Poplar creek, but it seems that none were successful. During the summer of 1850 the El Paso succeeded in reaching the mouth of Milk river, but during all this time Fort Union was really the head of navigation. The steamboats running farther up the Missouri than Kanesville were owned and operated by and for the American Fur Company only. Western Iowa began settling up at about this date, preparing the way for general commerce. In 1856 several boats besides those owned by the fur company ran up as far as the then new settlement of Sioux city, loaded with supplies suited to the wants of the country. This trade grew rapidly, until in the spring of 1857 boats ran from Saint Louis to Sioux city weekly. Above Sioux city there was little change, the fur company sending up each season from 2 to 4 boats as far as the mouth of the

Yellowstone river. In 1859 they built a small boat called the Chippewa. She was the first stern-wheel boat that navigated the Upper Missouri, and was better adapted to this river than any of her predecessors. She was accompanied by the Spread Eagle as far as Fort Union, and from thence pushed forward alone, passing Milk river, the highest point reached by the El Paso in 1850, and reached Fort McKenzie June 17, 1859. From this place, only a few miles below Fort Benton, she turned back. The Chippewa reached Fort Benton on her trip in 1860, being the first steamboat that ever reached the present head of navigation. About this time there was much interest exhibited in the Montana gold mines, which started an emigration in that direction. Boats were at once fitted out, loaded with provisions, tools, clothing, and such supplies as promised rich profits, and sent to Fort Benton. During the first years of the war the government established a number of posts on the Missouri above Fort Randall. This also increased the demand for boats, so that in 1864 there were at one time a dozen boats above Sioux city. In 1868 the first railroad reached Sioux city. Before the railroad had its warehouses built a company was formed which owned and operated the North Alabama, the Fannie Barker, the Deer Lodge, the Huntsville, the Tennessee, and other boats between Sioux city and Fort Benton. This line carried private, military, and Indian freight, and was quite successful. They operated in connection with the Sioux City and Pacific railroad. In 1870 they sold their shore property to the Peck line, operating on the river at that time. The Kountz line had also 4 boats on the river, and the Coulson line was organized about this time. The Fort Benton Transportation Company was organized in 1875.

PLAN OF THE TABLES.

Reverting to the present work, it will be found that the statistical results of the investigation by the Eleventh Census are embodied in 31 tables. The first 19 of these deal with the positive figures for 1889; the next 9 present the comparative figures for the 2 years of 1880 and 1889; 2 tables deal with the congressional appropriations made for the survey, improvement, and maintenance of the various water ways of the Mississippi valley, while the final table deals with the number of navigable miles on the rivers of the Mississippi valley. In addition to this division of the tables into 3 great groups, the positive statistics in the first 19 tables have been divided into 5 subgroups, entitled "Equipment", "Income and expenditure", "Employés", "Traffic", and "Classified details". Set down in index form the tables are as follows:

EQUIPMENT.

- Table 1. Equipment in general.
- Table 2. Equipment by classes.
- Table 3. Equipment by tonnage.

INCOME AND EXPENDITURE.

- Table 4. Expense account in general.
- Table 5. Expense account by classes.

EMPLOYÉS.

- Table 6. Employés by classes.

TRAFFIC.

- Table 7. Passenger and freight movement in general.
- Table 8. Freight movement by classes.
- Table 9. Commodities moved by freight steamers.
- Table 10. Commodities moved on barges.
- Table 11. Commodities moved by ferry steamers.
- Table 12. Recapitulation of commodities moved.

CLASSIFIED DETAILS.

- Table 13. Passenger and freight steamers.
- Table 14. Towboats.
- Table 15. Ferries.
- Table 16. Harbor craft.

CLASSIFIED DETAILS—Continued.

- Table 17. Miscellaneous.
- Table 18. No traffic report.
- Table 19. Résumé.

COMPARATIVE STATISTICS.

- Table 20. Fleets in 1880 and 1889.
- Table 21. Steamers by classes in 1880 and 1889.
- Table 22. Expense accounts in 1880 and 1889.
- Table 23. Wage details in 1880 and 1889.
- Table 24. Traffic in 1880 and 1889.
- Table 25. Documented fleets for 10 years, 1880 to 1889, inclusive.
- Table 26. Aggregate and average tonnages for same period.
- Table 27. Annual fluctuations of registered tonnage for same period.
- Table 28. Shipbuilding for same period.

CONGRESSIONAL APPROPRIATIONS.

- Table 29. Appropriations for rivers by detailed localities.
- Table 30. Appropriations by totals.

NAVIGABLE WATERS.

- Table 31. Navigable miles of the Mississippi fluvial system.

THE EQUIPMENT TABLES.

The first table of equipment (Table 1) shows the number, tonnage, and value of all steamers and unrigged craft of over 5 tons burden owned on the rivers of the Mississippi valley in 1889. This simply deals with the totals, the only divisions made being into steamers and unrigged; and the only distribution effected being that of the steamers and unrigged to each of the rivers upon which they plied, with totals for the Upper Mississippi system, the Ohio system, the Lower Mississippi system, the Red River of the North, and a grand total for the valley.

Table 2, entitled "Equipment by classes", divides up the entries of the previous table, separating the total number of steamers plying on each river into the 5 operating classes or occupations of passenger and freight, towing, ferry, harbor, and miscellaneous, and giving to each class its tonnage and value. The unrigged is also

added to this list of classes, and a supplementary division is made of those steamers from which no traffic report was received. By this allotment the number, tonnage, and value of each class of craft operating on each river may be readily seen.

In Table 3 a new division is made of the steamers documented in the ports of the Mississippi valley in 1889. Instead of dividing them according to their respective occupations, as was done in Table 2, this table divides them according to groups of tonnage, and instead of allotting them to the different rivers on which they plied they are allotted to the various ports of entry. The material for this table was gathered from the report of the commissioner of navigation for 1889, and it is owing to this circumstance that the small discrepancy appears between the tonnage as made up from the census schedules and that gathered from the commissioner of navigation's report. In the case of the census schedules the tonnage of the 1,114 steamers amounted to 210,771.89 tons, while in the case of the commissioner's figures the 1,114 steamers had a tonnage of 209,826.07 tons, a difference of 945.82 tons, which is easily accounted for by the fact that gross tonnage is always a more or less elastic quantity and that it would be impossible to secure absolute identity of tonnage in the reports of two bureaus.

INCOME AND EXPENDITURE.

There are, it will be seen, 2 tables giving the statistics of income and expenditure. The first (Table 4) gives the total gross earnings, expenses, and net earnings of all the fleets operating on the rivers of the Mississippi valley and fluvial systems according to the same plan as was adopted in the general table of equipment (Table 1), while Table 5 divides up these gross earnings, expenses, and net earnings and distributes these totals among the various fleets divided into occupations according to the same plan pursued in the distribution of the fleets in the second table of equipment (Table 2).

One of the chief items making up the total of expenses incurred in the operation of the Mississippi valley fleet was that of wages, and this subject is treated of in Table 6. In this table there are shown the total wages paid during the year to all the officers and men making up the ordinary crews of each class of steamers, together with the total number of men required to work and officer the 975 operating steamers. Of course these figures are not to be understood as indicating the total number of men to whom whole or partial employment was given during the year. That number was necessarily a much larger one, but the difficulties experienced in securing anything like a correct report of this total number were found to be so great that the tabulation of the statistics regarding so nomadic a class of workers as many of the employés of the river steamboats are had to be abandoned. The average wages per man per year are not given in this table, but will be found in Table 23, which deals with the comparative wage statistics of the years 1880 and 1889.

THE TRAFFIC TABLES.

The presentation of the statistics of traffic is made in 6 tables, numbered in running order from 7 to 12, inclusive.

Table 7 shows in a general and comprehensive fashion the number of passengers carried and the tons of freight moved by all the operating craft of the Mississippi valley allotted to the different rivers and systems, the only attempt at detail being that of separating the passengers under the heads of "Regular and excursion" and "Ferry".

A corresponding division of the totals of freight moved will be found in Table 8, wherein the total amounts of freight moved on each river are set down under the respective heads of "Freight carried" and "Freight towed", whether by passenger and freight steamers, ferries, or towboats.

The 4 succeeding tables (9, 10, 11, and 12) carry out this work of division in a still greater degree. In Tables 9, 10, and 11 the freight carried by the passenger and freight steamers, by ferries, and on unrigged is given by commodities, the division of these being carried out to as great an extent as the returns of the schedules would permit. They give about 30 items of commodity, about equally divided between the products of agriculture, of mines, and of merchandise.

In Table 12 all these commodities are gathered under their respective heads and given in one table, thus showing the quantity of each commodity moved by all the operating craft of the Mississippi valley during 1889.

CLASSIFIED DETAILS.

The 6 succeeding tables (13, 14, 15, 16, 17, and 18) form another group, which may be entitled that of "classified details". In these tables the information which had been furnished in the various tables of equipment, income and expenditure, employés, and traffic is gathered together under the 6 titles of "Passenger and freight steamers", "Towboats", "Ferryboats", "Harbor boats", "Miscellaneous craft", and "No traffic report", with a separate table for each class of occupation.

In Table 19 all of the preceding returns are gathered together and a résumé is furnished, in which all the statistics of the various classes of vessels are grouped for each river of the valley. By this method the water transportation in any of its branches, on any river of the Mississippi valley, can be seen at a glance.

An apparent discrepancy exists between the total figures of the amount of freight towed as given in Table 10, which shows the towed freight by commodities, and that given in Table 14, which shows the entire operations of the towboats as a class. In the commodity table the total amount of freight moved on unriggered craft and on rafts on the rivers of the Mississippi valley is set down as 19,059,542 tons, while in Table 14, showing the amount of freight distinctively moved by towboats, the amount of freight moved is set down as 17,133,342 tons. The difference, 1,926,200 tons, is that amount of freight which was towed by passenger and freight steamers on the Illinois, the Allegheny, the Big Sandy, the Green, the Wabash, the White, the Arkansas, the Yazoo, the Washita, the Red, and the Red River of the North. In order to make this clearer, the amount of freight moved on these rivers by passenger and freight steamers has been doubly entered on Table 13 as the amount of freight carried and the amount of freight moved. A simple calculation would show that out of the total 11,159,798 tons of freight credited to the passenger and freight steamers as their share of the transportation business 9,233,598 tons were carried on the steamers themselves, and that the amount which has already been quoted, 1,926,200 tons, was towed. This method of calculation will also explain why, in the commodity table (Table 9), showing the amount of freight carried on the passenger and freight steamers, the total is set down as 9,233,598 tons, while in the class table (Table 13) of the passenger and freight steamers the amount of freight set down as being moved by these steamers is 11,159,798 tons; for just as the 1,926,200 tons of towed freight had to be subtracted from the class table (Table 13) so in this case the same amount of tonnage has to be added to the 9,233,598 tons set down in the commodity table (Table 9).

THE COMPARATIVE TABLES.

So far the tables which have been enumerated have referred only to the condition and operation of the water ways of the Mississippi valley for 1889, while in the 5 succeeding tables, numbered from 20 to 24, inclusive, there are given the comparative statistics for 1880 and 1889. The subjects compared are: Table 20, the number, tonnage, and value of the steamers and unriggered craft owned on the rivers of the Mississippi valley in 1880 and 1889, given by localities; Table 21, the number, tonnage, and value of all steam vessels owned on the rivers of the Mississippi valley in 1880 and 1889, given by their occupations; Table 22, the gross earnings and amount paid in wages by all craft operating on the Mississippi valley in 1880 and 1889; Table 23, the number of men constituting the totals of the ordinary crews employed on all the craft operating on the rivers of the Mississippi valley in 1880 and 1889, together with the wages paid and the calculated averages of annual pay, with a decrease or increase per man, given by localities; Table 24, the number of tons of freight moved and the number of passengers carried by all craft operating on the Mississippi valley in 1880 and 1889, given by localities.

An extension of certain of these comparative statistics is found in the next 4 sets of tables, numbered 25, 26, 27, and 28. The first of these presents the number and tonnage of all steam vessels and barges registered in the customs districts of the Mississippi valley for the years 1880 to 1889, inclusive. The second (Table 26) shows the number, aggregate tonnage, and average vessel tonnage of all the steamers registered in these districts during the same years. The third (Table 27) shows the average annual number of steamers and the average annual tonnage registered in the same districts during the same years, so arranged as to show the fluctuations of registration. The fourth (Table 28) presents the number and tonnage of all steam vessels and barges built in the customs districts of the Mississippi valley during these 10 years, together with data showing the number and tonnage of side-wheel steamers, stern-wheel steamers, and propellers built during each year in each district.

A recapitulation for the 10 years is given for the first and last of these sets of tables, from which those whose interest is not sufficient to lead them into the study of the details of the condition of shipbuilding, the changes in the method of propulsion, and the fluctuations of the operating fleets may see these things in 10 lines instead of 10 tables.

CONGRESSIONAL APPROPRIATIONS.

One of the most interesting tables is Table 29, which gives the amounts appropriated by Congress for the survey, improvement, and maintenance of the water ways of the Mississippi valley from the date of the earliest appropriation down to and including that of the act of Congress of September, 1890. These sums, so far as the grouping of periods is concerned, are given, first, up to and including 1879; second, from 1880 to 1889; third, the appropriations in 1890; and, fourth, the total appropriations from first to last. These sums, so far as the localities are concerned, are given with considerable detail, not only for the rivers and the systems into which all the tables are divided, but also for the different portions of the larger rivers for which appropriations have been made and for whatever tributaries and subtributaries have either been surveyed or improved by the government. An additional column is given, in which is entered the date of the earliest appropriation made for each division of a stream or its tributary. The whole forms a comprehensive index of the government's encouragement and care of the water ways of the Mississippi valley.

Table 30 gathers up the details of Table 29 and gives them in the compact form of totals only.

Table 31 deals with the number of navigable miles on the rivers of the Mississippi valley and the number of miles over which a transportation business was conducted in 1889.

WHAT THE TABLES SHOW.

Having considered the plan of the tables, it is next in order to consider what these tables show.

Taking up first the 3 equipment tables in their order, it is seen, from the totaled figures for the different divisions of the fluvial system of the Mississippi valley, given in Table 1, that in 1889 there were owned on those rivers 1,114 steamers, having a tonnage of 210,771.89 and a value of \$10,539,251; 6,339 unrigged craft, with a tonnage of 3,182,608 and a value of \$4,795,754; a grand total of 7,453 craft, having a tonnage of 3,393,379.89 and a value of \$15,335,005. The figures of total tonnage appear enormous when placed in comparison with those of other sections of the country, but it will be observed that 93.79 per cent of the valley total is tonnage of low grade. Dividing this valley total into system totals, it is found that in 1889, on the Upper Mississippi and its tributaries, including the Red River of the North, there were 269 steamers, with a tonnage of 33,398.47 and a value of \$1,895,269; 359 unrigged, with a tonnage of 191,555 and a value of \$266,923; an aggregate of 628 craft, with a tonnage of 224,953.47 and a value of \$2,162,192. On the Ohio river and its tributaries there were 537 steamers, of a tonnage of 107,195.83 and a value of \$5,192,710; 5,708 unrigged craft, of a tonnage of 2,813,273 and a value of \$3,503,631, making a total of 6,245 craft, of a tonnage of 2,920,468.83 and a value of \$8,696,341. On the Lower Mississippi there were 308 steamers, with a tonnage of 70,177.59 and a value of \$3,451,272; 272 unrigged craft, of a tonnage of 177,780 and a value of \$1,025,200, making an aggregate of 580 craft, of a tonnage of 247,957.59 and a value of \$4,476,472.

The preceding figures relate to all steamers and unrigged craft owned on the rivers of the Mississippi valley, whether in operation or not. Between these figures and the number of those vessels in operation there is a discrepancy, which is attributable to the fact that there were many steamers which were not in operation during 1889, or from which no traffic report could be secured. This unremunerative stock (unremunerative so far as the purposes of the present report are concerned) is given in Table 2 (and Table 18) under the class title of "no traffic report", and will be found to number 139 for the whole valley, with a tonnage of 17,387.07 and a value of \$904,143. Of this number 33 steamers were owned on the Upper Mississippi system and Red River of the North, representing a tonnage of 4,435.17 and a value of \$214,719; 59 belonged to the Ohio system, with a tonnage of 7,874.81 and a value of \$401,802, and 47 were owned on the Lower Mississippi system, with a tonnage of 5,077.09 and a value of \$287,622. This leaves an active balance of 975 steamers, with a tonnage of 193,384.82 and a value of \$9,635,108, divided in their occupations, as will be seen in Table 2, and shown by class tables as follows:

EQUIPMENT OF CLASSES.

TABLE 13.—In the actual transportation of passengers and freight there were 320 steamers, with a tonnage of 95,215.26 and a value of \$3,661,475, of which number 48 were employed on the Upper Mississippi and tributaries and Red River of the North, with a tonnage of 10,414.73 and a value of \$443,700; 161 were employed on the Ohio, representing a tonnage of 45,513.50 and a value of \$1,752,075, and 111 were employed on the Lower Mississippi system, with a tonnage of 39,287.03 and a value of \$1,465,700.

TABLE 14.—In the towing of freight on all classes of unrigged craft and on rafts there were 290 steamers employed, with a tonnage of 53,875.55 and a value of \$3,422,983, of which 98 were employed on the Upper Mississippi system, with a tonnage of 11,547.70 and a value of \$759,000; 157 were employed on the Ohio system, with a tonnage of 32,662.67 and a value of \$2,036,383, and 35 were employed on the Lower Mississippi system, with a tonnage of 9,665.18 and a value of \$627,600.

TABLE 15.—Engaged in the ferry business were 163 steamers, having a tonnage of 18,593.40 and a value of \$1,056,250, of which number 51 were employed on the Upper Mississippi system, with a tonnage of 3,905.31 and a value of \$268,300; 61 were employed on the Ohio, with a tonnage of 11,543.53 and a value of \$376,250, and 51 were employed on the Lower Mississippi system, with a tonnage of 3,144.56 and a value of \$411,700.

TABLE 16.—In local or harbor towing and in such pursuits as would necessarily fall to floating channel property there were 141 steamers, with a tonnage of 18,981.96 and a value of \$1,028,350. Of this number 29 belonged to the ports and harbors of the Upper Mississippi system, with a tonnage of 1,095.81 and a value of \$69,750; 59 belonged to the ports and harbors of the Ohio system, with a tonnage of 5,482.35 and a value of \$370,300, and 53 belonged to the ports and harbors of the Lower Mississippi system, with a tonnage of 12,403.80 and a value of \$588,300.

TABLE 17.—The balance has been grouped under the head of "Miscellaneous", and includes pleasure boats, private excursion boats, traveling shows, and all such craft as can not be said to have any net earnings from the industry of water transportation, of which class there were 61 steamers in operation in the valley, having a tonnage of 6,718.65 and a value of \$466,050. Of this number 10 were employed on the Upper Mississippi system, with a tonnage of 1,999.75 and a value of \$139,800; 40 were employed on the Ohio system, having a tonnage of 4,118.97 and a value of \$255,900, and 11 were employed on the Lower Mississippi, with a tonnage of 599.93 and a value of \$70,350.

EQUIPMENT, BY DISTRICTS OF REGISTRATION.

The third table of equipment (Table 3) furnishes a decided amplification of the list of steamers distributed according to their districts of registration, which was given in the early part of this text. That list was made out irrespective of the order of importance of each district, but on taking up this idea it is found that, so far as the number of documented steamers go, the districts stand as follows in the order of their importance:

DISTRICTS OF REGISTRATION.	Rank in importance of registration, by number.	Number of registered steamers.	DISTRICTS OF REGISTRATION.	Rank in importance of registration, by number.	Number of registered steamers.
Pittsburg, Pennsylvania.....	1	152	Minnesota.....	10	46
New Orleans, Louisiana.....	2	126	Burlington, Iowa.....	11	43
Cincinnati, Ohio.....	3	115	Vicksburg, Mississippi.....	12	30
Saint Louis, Missouri.....			Dubuque, Iowa.....	13	28
Wheeling, West Virginia.....	4	94	Galena, Illinois.....	14	27
Memphis, Tennessee.....	5	71	Chattanooga, Tennessee.....	15	22
Evansville, Indiana.....	6	54	Kansas city, Missouri.....	16	16
Paducah, Kentucky.....	7	53	Omaha, Nebraska.....	17	13
Louisville, Kentucky.....	8	52	Saint Joseph, Missouri.....	18	6
Lacrosse, Wisconsin.....	9	47	Natchez, Mississippi.....	19	4

When, however, the relative importance of the districts as shown by registered tonnage is considered, the order, as will be seen by the following statement, is somewhat changed:

DISTRICTS OF REGISTRATION.	Rank in importance of registration, by tonnage.	Tonnage of registered steamers.	DISTRICTS OF REGISTRATION.	Rank in importance of registration, by tonnage.	Tonnage of registered steamers.
Saint Louis, Missouri.....	1	42,827.04	Minnesota.....	11	5,213.56
Pittsburg, Pennsylvania.....	2	32,263.23	Burlington, Iowa.....	12	5,059.39
Cincinnati, Ohio.....	3	31,406.87	Chattanooga, Tennessee.....	13	3,966.09
New Orleans, Louisiana.....	4	19,248.58	Lacrosse, Wisconsin.....	14	3,884.03
Memphis, Tennessee.....	5	12,113.76	Galena, Illinois.....	15	3,129.60
Louisville, Kentucky.....	6	11,937.92	Vicksburg, Mississippi.....	16	2,875.99
Wheeling, West Virginia.....	7	9,768.97	Kansas city, Missouri.....	17	1,781.35
Paducah, Kentucky.....	8	8,781.24	Omaha, Nebraska.....	18	1,329.55
Evansville, Indiana.....	9	6,950.76	Natchez, Mississippi.....	19	592.35
Dubuque, Iowa.....	10	6,355.26	Saint Joseph, Missouri.....	20	340.53

STATUS OF THE DISTRICTS.

In the number of registered craft Pittsburg easily leads, while Saint Louis stands third, but in the amount of registered tonnage Saint Louis rises to first place, while Pittsburg takes the second. On the other hand, while Wheeling stands fourth in point of number it is seventh in point of registration, and Lacrosse, from being ninth in point of number, sinks to fourteenth in point of registered tonnage. In both number and tonnage, however, Saint Louis, Pittsburg, Cincinnati, New Orleans, Wheeling, Memphis, Evansville, Louisville, and Paducah stand easily as the first 9 districts, while the relative positions of the other districts do not vary very materially.

Looking from localities of registration to the analysis of tonnage (Table 3), it is interesting to note that while the small tonnage steamers, that is, from 5 to 50 tons, number 270, what may be called the medium tonnage steamers, that is, from 100 to 200 tons, are even greater in number, standing at 295. It is also interesting to note how close the number of the 300 to 400 ton steamers stands to the 500 to 1,000 ton class, being 74 to 71, while the number of the 400 to 500 ton class only reaches 28. The number (23) of the 1,000 to 2,500 ton class is rather surprising, but one can not fail to remark that the first 3 tonnage classes, the 5 to 50 tons, the 50 to 100 tons, and the 100 to 200 tons, are undoubtedly the favorite classes of river steamers, their aggregate number standing at 826 out of a total of 1,114, or 74.15 per cent of the whole number, and representing an aggregate tonnage of 69,879.60 out of a total tonnage of 209,826.07, or 33.30 per cent of the whole amount. Equally interesting deductions may be drawn from the returns of the different districts. These returns of equipment by tonnage classes were not kept in the previous census year, so that it is not possible to make any class comparisons, but the question of average tonnage will be considered when the group of comparative statistics is reached.

EARNINGS AND EXPENSES.

Tables 4 and 5 may be accepted as showing, both by localized totals and by classified details, how the business of water transportation on the rivers of the Mississippi valley paid in 1889. From Table 4 it will be gathered that the gross earnings of the entire operating fleet amounted to \$16,337,533, the expenses to \$12,600,342, and the net earnings to \$3,737,191. From the figures given when making the summary of equipments in Table 1 it was found that the total value of the entire fleet of vessels of all classes in the Mississippi valley, whether in operation or not, amounted to \$15,335,005. In all probability this estimated commercial valuation was short of the actual figures by some 30 per cent, which would raise the real value of the Mississippi valley fleet to \$21,907,150. When localized it is found that of the total figures the operating fleet of the Upper Mississippi system and the Red River of the North took in as gross earnings \$2,618,146, paid out \$1,855,063, and secured net earnings of \$763,083. The gross earnings of the operating fleet of the Ohio system were \$6,702,013, their expenses \$5,270,567, and their net earnings \$1,431,446, while the gross earnings of the operating fleet of the Lower Mississippi system were \$7,017,374, their expenses \$5,474,712, and their net earnings \$1,542,662.

EXPENSE ACCOUNTS OF CLASSES.

So far as the pecuniary results of the different classes go, it is found from Table 13 that the most important are the 320 passenger and freight steamers, which, in 1889, made as gross earnings \$7,651,248, paid out \$6,580,356, leaving net earnings amounting to \$1,070,892. The bulk of these sums was earned and paid out on the Lower Mississippi, where the gross earnings amounted to \$3,040,334, the expenses to \$2,742,406, and the net earnings to \$297,928. Next in importance comes the Ohio, where the gross earnings were \$2,168,215, but as the expenses stand only at \$1,850,248, leaving the net earnings \$317,967, it will be seen that the passenger and freight steamers paid better on this stream than on the Lower Mississippi. The other streams stand as follows: the Upper Mississippi, the Tennessee, and the Red, all with gross earnings over \$300,000; the Cumberland, the Yazoo, the Illinois, the Monongahela, the Missouri system, the Washita, and the White, having gross earnings over \$100,000, and the Muskingum, the Great Kanawha, the Kentucky, the Wabash, the Green, the Red River of the North, and the Allegheny stand in the order given so far as their earnings are concerned.

Though the gross earnings of the towboats (Table 14) were considerably less than those of the passenger and freight steamers, standing as they do at \$6,036,748 against \$7,651,248, the cost of conducting this class of craft was considerably less. As the expenses stand at \$4,098,723 for the towboats and \$6,580,356 for the passenger and freight steamers, this means net earnings for the towboats of \$1,938,025 against \$1,070,892 for the passenger and freight steamers. It is very interesting to notice here that on the Ohio the earnings of both classes are almost identically the same, for while the gross earnings of the passenger and freight steamers on that river amounted to \$2,168,215, the gross earnings of the towboats amounted to \$2,168,020. It will be observed, however, that the expenses of running the towboats, though numbering 114 as against 85 passenger and freight steamers, stand only at \$1,657,136 as against \$1,850,248. The net earnings of the towboats therefore reached \$510,884 as against \$317,967 for the passenger and freight steamers. It is also interesting to notice the importance which towing has assumed on the rivers forming the Upper Mississippi system. The boats engaged exclusively in this business numbered 98, the gross earnings of that fleet reaching to \$1,485,048, out of which were paid \$956,143 expenses, leaving \$528,905 net earnings. A close similarity between the number of vessels engaged as passenger and freight steamers and as towboats on the Ohio system and the strongly marked variations of tonnage and value are all interesting subjects for comparative data.

The expense account of the ferry fleet (Table 15) shows that the whole 163 steamers belonging to the Mississippi valley earned \$1,196,817, out of which was paid \$818,634, leaving \$378,183 net earnings. These figures, however, are not as satisfactory as they might be, and it must be understood that they are only partial reports, the owners of the large ferry lines claiming that their complete returns were made when reporting on the railroads of which they form a transfer link.

The earnings of the harbor boats (Table 16) amounted to \$1,291,080, the expenses to \$940,989, leaving \$350,091 for net earnings. These were chiefly employed at the ports of Saint Louis, Pittsburg, New Orleans, Cincinnati, and Memphis, the others being engaged at various points on the Saint Croix, Great Kanawha, and the Big Sandy. So far as the different systems are concerned the harbor boats of the Upper Mississippi made as gross earnings \$115,249, incurred \$80,675 expenses, leaving \$34,574 net profits; those of the Ohio system ports made as gross earnings \$374,352, paid out \$286,095 expenses, and counted on \$88,257 net earnings, and those of the Lower Mississippi ports made as gross earnings \$801,479, paid out \$574,219 for expenses, and profited to the extent of \$227,260 net earnings.

The gross earnings of the miscellaneous class (Table 17), \$161,640, have been balanced with a similar amount, because these earnings can not be said to have been made in the prosecution of the business of water transportation, and the balance has been struck in order that there might be no difference in the total net earnings of all the craft operating in the Mississippi valley.

CREWS AND WAGES.

One of the chief items accepted as indicating the importance of an industry is that of wages, and, in this particular, water transportation on the Mississippi valley, as is shown in Table 6, may certainly be regarded as an industry of much consequence. During 1889 the total of the ordinary crews of the operating craft numbered 15,996 men, although in the change of employes very many more men found whole or partial employment during the year. At the risk of repetition, it must be stated that this number must be taken as representing the total of the captains, engineers, deck hands, roustabouts, etc., who were required to man and run the 975 operating craft during the year, and to this complement of necessary men there was paid out \$5,338,862. The largest number of these men were employed on the Ohio system, where to 7,663 men, making the complementary crews of 478 operating vessels, there was paid \$2,545,625. The Lower Mississippi system stands next, where to 5,345 men, making up the complementary crews of 261 steamers, there was paid out \$1,948,541; the number of men on the Upper Mississippi system standing at 2,943 as the complementary crews of 233 steamers, the amount paid in wages being \$843,019. In the relation of craft and men (shown in Tables 13, 14, 15, 16, and 17) some peculiar facts make themselves apparent. On the 320 passenger and freight steamers the crew total amounted to 9,101 men, to whom was paid \$2,603,031, or an average of \$286.02 per man, while on the 290 towing steamers the crew total amounted only to 4,742 men, to whom was paid \$1,787,995, or an average of \$377.06 per man, which means that on the towboats the wages paid was on the average \$91.04 per man higher than it was for the average passenger and freight steamer employe. The wages paid on the 163 ferryboats is reported at \$456,676, paid to 893 men, while to the 1,016 men employed on the 141 harbor boats no less than \$409,267 was paid. The reports for the 61 miscellaneous craft show that 244 men were employed, to whom was paid \$81,893.

STATISTICS OF TRAFFIC.

Of the 5 operating classes only 3 can be said to be engaged in traffic, these being passenger and freight steamers, ferry steamers, and towboats. As is shown by Table 7, 29,405,046 tons of freight were moved by these 3 classes jointly on all the rivers of the Mississippi valley, of which amount 6,961,977 tons were moved on the Upper Mississippi system and Red River of the North, 16,041,866 tons on the Ohio, and 6,401,203 tons on the Lower Mississippi system.

The great bulk of this freight was towed, the total towed freight (see Table 8) amounting to 19,059,542 tons, of which 4,810,353 tons were towed on the Upper Mississippi system and Red River of the North, 12,235,201 tons on the Ohio system, and 2,013,988 tons on the Lower Mississippi system.

Nearly all of these 19,059,542 tons of towed freight were moved by the 290 towboats of which the equipment figures have been given. The exact figures of the amount of freight moved by the fleet of towboats are 17,133,342 tons, of which 4,762,024 tons were moved by those of the Upper Mississippi system, 11,149,972 tons by towboats of the Ohio system, and 1,221,346 tons by the Lower Mississippi system fleet of towboats.

The balance of the towed freight, 1,926,200 tons, was towed by the passenger and freight boats on the Illinois, Allegheny, Big Sandy, Green, Wabash, White, Arkansas, Yazoo, Washita, Red, and Red River of the North. By systems, the amounts of freight so towed were 44,692 tons on the Upper Mississippi system, 1,085,229 on the Ohio system, 792,642 on the Lower Mississippi system, and 3,637 on the Red River of the North.

The amount of freight carried on the 320 passenger and freight steamers amounted to 9,233,598 tons for the valley, of which 1,453,732 tons were carried on the Upper Mississippi system, 3,561,767 tons on the Ohio system, and 4,218,099 tons on the Lower Mississippi system. By actual carriage and towing these passenger and freight steamers moved 11,159,798 tons of freight on the rivers of the valley, of which amount 1,502,061 tons were moved on the Upper Mississippi system and Red River of the North, 4,646,996 tons on the Ohio system, and 5,010,741 tons on the Lower Mississippi system.

So far but 28,293,140 tons of freight out of a total movement of 29,405,046 tons have been accounted for. The remaining 1,111,906 tons are credited to the 163 ferryboats. As was explained when speaking of the expense accounts of these steamers, the report of freight carried is not as satisfactory as it might be, because of the claims made by their owners, either that the freight movement had already been given in the reports of railroads or else that their freight had been carried in such a shape (by wagon or car load) that no tonnage returns could possibly be made. Of the 1,111,906 tons given, 539,057 tons were reported for the Upper Mississippi, 800 for the Saint Croix, 158,035 for the Missouri, 244,898 for the Ohio, 168,016 for the Lower Mississippi, and 1,100 for the Arkansas.

It was on these 3 classes of steamers, the passenger and freight, ferry, and towboats, that the passenger traffic of the Mississippi valley was conducted (see Table 7). Most of the excursion passengers were either carried on the towboats or towed on barges by them, while the regular and ferry passengers were of course carried on the steamers devoted to the respective business. The total number of passengers carried during 1889 was, it will be seen, 10,858,894, made up of 2,384,248 regular and excursion passengers and 8,474,646 ferry passengers. By systems, it is found that there were 338,750 regular and excursion passengers carried on the Upper Mississippi and its tributaries and 1,482,984 ferry passengers, a total of 1,821,734. On the Ohio system the regular and excursion

passengers amounted to 1,506,594 and the ferry passengers to 4,996,549, a total of 6,503,143; while on the Lower Mississippi system the regular and excursion passengers numbered 538,904 and the ferry passengers 1,995,113, a total of 2,534,017. No passenger movement was reported for the Red River of the North.

MOVEMENT OF COMMODITIES.

In the analysis of freight traffic shown by Tables 9, 10, 11, and 12 it is seen that while about 30 commodities are reported there are 6 principal commodities which easily lead, these being grain, cotton, coal, iron ore, lumber and forest products, and cotton seed and cotton-seed oil. The movement of these different commodities (see Table 12) was as follows: grain, 1,730,918 tons (wheat, 848,442 tons; corn, 786,888 tons; other grain, 95,588 tons); cotton, 896,292 tons; coal, 8,539,229 tons; iron ore, 574,790 tons; lumber and forest products, 9,300,641 tons; cotton seed and cotton-seed oil, 394,788 tons. Other items of which there was a large movement were: sugar, 190,873 tons; animal products, 177,376 tons; stone and gravel, 178,631 tons; clay and sand, 142,423 tons; hay, 91,579 tons, and iron manufactures, outside of iron (pig and bloom), 92,110 tons. Of flour-mill products there were moved 90,895 tons; of tobacco, 27,959 tons; of fruit and vegetables, 59,610 tons; of ice, 91,010 tons; of petroleum and other oils, 3,538 tons; of iron (pig and bloom), 7,775 tons; of cement, brick, and lime, 2,375 tons; of all other manufactures (including salt), 74,596 tons; of unclassified merchandise, 6,737,075 tons.

The great barge movement (Table 10) was of such commodities as corn, hay, coal, iron ore, stone and gravel, clay and sand, ice, lumber and forest products, cotton, and sugar. Out of a total movement of 91,579 tons of hay 57,635 tons were towed on barges; out of a total of 8,539,229 tons of coal 8,527,115 tons were towed; out of a total of 574,790 tons of iron ore 573,896 tons were towed; out of a total of 178,631 tons of stone and gravel 156,699 tons were towed; out of a total of 142,423 tons of clay and sand 141,464 tons were towed; out of a total of 91,010 tons of ice 91,000 tons were towed; out of a total of 9,300,641 tons of lumber and forest products 8,652,696 tons were towed; out of a total of 190,873 tons of sugar 100,000 tons were towed, and out of a total of 786,888 tons of corn 471,203 tons were towed. The principal towing of these commodities was conducted as follows: that of corn, on the Lower Mississippi, 471,203 tons; that of hay was principally, on the Missouri, 5,000 tons; the Tennessee, 5,000 tons; the Lower Mississippi, 5,000 tons, and the Arkansas, 42,000 tons. The principal towing of coal was done, on the Ohio, 4,018,787 tons; on the Monongahela, 3,059,418 tons; on the Great Kanawha, 941,446 tons; on the Lower Mississippi, 183,848 tons, and on the Arkansas, 165,888 tons. The principal barge movement of iron ore was on the Tennessee, on which 528,248 tons were towed out of a total of 573,896 tons. Stone and gravel were principally towed, on the Allegheny, 19,050 tons; on the Kentucky, 12,861 tons, and on the Arkansas, 120,000 tons. The principal barge movement of clay and sand was, on the Allegheny, 51,500 tons, and on the Cumberland, 89,964 tons. The principal ice movement on barges was on the Upper Mississippi, 45,050 tons, and on the Illinois, 41,950 tons. The principal barge movement of lumber and other forest products was 3,372,874 tons on the Upper Mississippi, 846,016 tons on the Saint Croix, 1,131,755 tons on the Ohio, 600,000 tons on the Green, 664,318 tons on the Cumberland, 310,654 tons on the Lower Mississippi, 261,906 tons on the Arkansas, and 325,477 tons on the Chippewa. The principal barge movement of sugar was 100,000 tons on the Lower Mississippi.

Of the commodities which were almost entirely carried on board passenger and freight steamers, the principal were wheat, other grains, mill products, cotton, iron (pig and bloom), cement, brick, and lime, all other manufactures, cotton seed and cotton-seed oil, and general merchandise. Those commodities which were carried entirely on passenger and freight steamers, or of which at least there was no barge movement, were tobacco, fruit and vegetables, animal products, petroleum and other oil, iron manufactures, and bar and sheet metal.

The ferry traffic could not be very well divided into commodities for reasons already referred to, and the bulk of the 1,111,906 tons had to be set down as general merchandise, the figures of that comprehensive commodity being 958,214 tons. Other commodities of which there was a ferry movement, and of which whole or partial returns were received, were: wheat, 8,461 tons; corn, 4,087 tons; other grain, 2,872 tons; mill products, 323 tons; cotton, 550 tons; tobacco, 252 tons; fruit and vegetables, 17,862 tons; coal, 11,801 tons; lumber, 100,400 tons; animal products, 6,858 tons; cement, brick, and lime, 182 tons, with a scattering tonnage of petroleum, sugar, bar and sheet metal, and all other manufactures.

CHARACTERISTICS OF TRAFFIC.

One of the principal values of these commodity tables will be to indicate the distinctive character of the local traffic on each of the rivers. It will be seen, for example, in Table 12 that the bulk of the Upper Mississippi's trade was in lumber and other forest products, the tonnage of that commodity standing at 3,473,189 tons out of a total tonnage movement on that river of 4,486,421 tons, the balance being almost entirely made up of 23,000 tons of wheat, 22,424 tons of coal, 45,050 tons of ice, and 913,888 tons of merchandise. The trade of the Saint Croix consisted almost entirely of a lumber movement, as did that of the Chippewa. The traffic on the Illinois, however, was a much more general one, 114,431 tons of general merchandise having been carried out of a total movement of 180,264 tons. The chief items of commodity movement on the Missouri, Osage, and Gasconade were: wheat, 141,658 tons; corn, 50,502 tons; mill products, 9,598 tons; coal, 51,162 tons; lumber, 104,384 tons; animal products, 11,424 tons, and

general merchandise 743,769 tons. The traffic on the Ohio was a very general one, and included 125,003 tons of wheat, 2,585 tons of corn, 18,522 tons of cotton, 11,656 tons of iron ore, 57,881 tons of sugar, 54,297 tons of iron, and 55,163 tons of all other manufactures; but the principal commodities after all were those of coal, lumber, and general merchandise, the figures being, respectively, 4,018,788 tons, 1,131,777 tons, and 2,293,466 tons. The Allegheny traffic consisted almost entirely of stone and gravel, 19,050 tons; clay and sand, 51,500 tons, and lumber and other forest products, 276,860 tons. The Monongahela's chief commodity was of course coal, there being 3,059,418 tons of that commodity moved out of a total river movement of 3,294,932 tons. The Muskingum's traffic was one of general merchandise; that of the Little Kanawha was almost entirely of lumber and other forest products; that of the Great Kanawha was chiefly confined to coal, 941,446 tons; lumber, 80,468 tons, and general merchandise, 119,848 tons. The Big Sandy's trade consisted very largely of lumber, 142,950 tons, and merchandise, 139,889 tons, the Kentucky running in the same way. The list of the Green's commodities was a much more general one, although lumber was still the principal commodity. The Wabash included a large grain and lumber movement in its report, as did the Cumberland, with an additional item of 89,964 tons of clay and sand. The Tennessee's traffic covered almost the entire list of commodities, although the principal items were 528,248 tons of iron ore, 17,984 tons of corn, 12,542 tons of cotton, 18,657 tons of fruit and vegetables, 35,888 tons of coal, and 20,178 tons of stone. The Lower Mississippi carried but little manufactures, comparatively, except in the item of sugar, of which the tonnage was 130,828 tons; the other principal items were products of agriculture, including 422,800 tons of wheat, 498,746 tons of corn, and 784,008 tons of cotton, the other chief commodities being 183,848 tons of coal; cotton seed and cotton-seed oil, 271,809 tons; general merchandise, 1,704,745 tons, and 310,654 tons of lumber. The traffic of the White was mainly that of lumber, but that of the Arkansas embraced the products of agriculture, mines, and manufactures about equally distributed. The Yazoo's trade was largely made up of 3 items: 22,865 tons of corn, 27,861 tons of lumber, and 14,124 tons of cotton seed and cotton-seed oil. Very nearly the same distribution of freight is to be seen in the Yazoo, the Washita, and the Red.

RESTRICTION OF RETURNS.

As was said in an early paragraph of this text, the attempt has been made, wherever possible, to credit to each stream the commodity traffic which originated there or which was confined to points along that stream; that is, to the Illinois river, for instance, there was credited the 18,000 tons of wheat which were either moved from some point on that river to some other point on the Illinois, or which were moved from some point on the Illinois to some point on another stream. Of course, in attempting to thus confine the credit of freight operations in certain commodities to certain streams, the great difficulty has been to avoid a duplication of freight movement when considering the transportation of the same commodity on some other stream; that is, the difficulty has been to say that no part of these 18,000 tons of wheat is found in the report of wheat movement on any other river. It has, indeed, been almost impossible to confine this commodity movement within such strict limits, but the attempt has been made with reasonable success.

In such commodities as cotton, tobacco, iron ore, sugar and molasses, cotton seed, cotton-seed oil, and hay the work of limitation has not been so difficult, the movement of these commodities being a localized one, but in the movement of such commodities as coal and lumber and other forest products it has been a difficult matter to procure a correct limitation. Take, for example, the commodity of coal. Table 12 shows that in 1889 there were moved on the Ohio 4,018,788 tons of coal, on the Monongahela 3,059,418 tons, on the Great Kanawha 941,446 tons, the coal movement on the other tributaries of the Ohio making a total for the system of 8,102,544 tons of coal. Here the chief rivers of origin were the Monongahela and the Great Kanawha, while the great center of distribution was Pittsburg. The chief points of supply were Pittsburg, Wheeling, Cincinnati, Louisville, Saint Louis, Memphis, and New Orleans. In the supply of these different points the coal was towed out on barges from the Ohio into the Mississippi, and the difficulty has been to say decisively whether the coal taken over the Lower Mississippi, in the supply of the different cities along that stream, should be set down as part of the traffic of the Lower Mississippi or go only to the Ohio as the stream of origin. It has been found that of the 8,102,544 tons of coal which are set down to the credit of the Ohio and its tributaries 2,104,681 tons were brought out into the Lower Mississippi, while it has also been found that the coal movement which either had its origin on the Lower Mississippi or was confined to between points on that stream, exclusive of the stoppage of coal barges en route from the Ohio to points on the Lower Mississippi, amounted to 183,848 tons. The superior part of Table 12, it will be seen, sets down this amount as being the traffic in the commodity of coal, which alone should be properly credited to the Lower Mississippi, while in the subsidiary part of the same table it is shown that on the Lower Mississippi there was moved a total of 2,288,529 tons of coal, that amount being made up out of the coal brought down from the Ohio and the coal which was moved along the Lower Mississippi as the river of origin.

A similar treatment has been made with respect to the statistics of lumber. Here, it will be seen, the amount of lumber carried over the Lower Mississippi, irrespective of origin, was 1,794,719, while the traffic in lumber on the Lower Mississippi as a river of origin was but 310,654 tons.

ORIGIN OF FREIGHT.

The two sets of figures, therefore, show that on the Lower Mississippi system there was a total movement of coal, irrespective of origin, of 2,465,480 tons, but that on the Lower Mississippi system, as a system of origin, there was a movement of but 360,799 tons, while the total lumber movement on the Lower Mississippi system, irrespective of origin, was 2,222,813 tons, but that the lumber movement on the Lower Mississippi and its tributaries as points of origin was only 738,748 tons.

In the matter of coal it will be seen the total movement on the Upper Mississippi system was 75,886 tons, that on the Ohio system was 8,102,544 tons, and that of the Lower Mississippi and its tributaries was 2,465,480 tons, which, added together, would give a grand total as the freight movement in coal of the vessels on those 3 systems of 10,643,910 tons. But in making up a computation of the total movement of the commodity of coal on these 3 systems it should be understood that it is only proper to take the 75,886 tons on the Upper Mississippi and its tributaries, the 8,102,544 tons on the Ohio and its tributaries, and the 360,799 tons on the Lower Mississippi and its tributaries, with the total of 8,539,229 tons as the true total of the report of the commodity movement of coal on the rivers of the Mississippi valley. In the same way the 3 totals of 4,749,808 tons, 3,812,035 tons, and 2,222,813 tons of lumber and other forest products can be considered as the total freight movement in lumber by all the vessels of the Mississippi valley, but the actual amount of lumber moved on the rivers of the Mississippi valley was only 9,300,641 tons, made up of the 4,749,808 tons moved on the Upper Mississippi and its tributaries as rivers of origin, the 3,812,035 tons moved on the Ohio and its tributaries as rivers of origin, 738,748 tons moved on the Lower Mississippi and its tributaries as rivers of origin, and the 50 tons moved on the Red River of the North as river of origin.

COAL MOVEMENT ON THE OHIO.

From the preceding analysis it will be observed that by far the most important item of freight of the Ohio is coal, and on this account it was thought advisable in preparing a bulletin (No. 88) on transportation on this river to attempt to localize the coal traffic. The subjoined table was therefore worked out, showing the amount of coal shipped from Pittsburg (Pennsylvania), Point Pleasant (West Virginia), Pomeroy (Ohio), Ashland (Kentucky), and Bellaire (Ohio), and the cities to which this coal was shipped:

COAL TRAFFIC ON THE OHIO.

A.—AMOUNT OF COAL SHIPPED FROM PLACES NAMED AND THE DISTANCE CARRIED EXPRESSED IN TON MILEAGE.

FROM—	Tons.	Tons moved 1 mile.
Total.....	4, 018, 788	2, 644, 392, 833
Pittsburg, Pennsylvania.....	2, 753, 599	2, 382, 822, 128
Point Pleasant, West Virginia.....	1, 067, 857	231, 087, 122
Pomeroy, Ohio.....	136, 900	23, 780, 489
Ashland, Kentucky.....	42, 530	6, 013, 350
Bellaire, Ohio.....	17, 902	689, 764

B.—AMOUNT OF COAL SHIPPED FROM PITTSBURG TO PLACES NAMED.

TO—	Tons.	Miles.	Tons moved 1 mile.	TO—	Tons.	Miles.	Tons moved 1 mile.
Total.....	2, 753, 599	.....	2, 382, 822, 128	Greenville, Mississippi.....	10, 000	1, 465	14, 650, 000
Cincinnati, Ohio.....	1, 287, 394	467	601, 212, 998	Natchez, Mississippi.....	46, 231	1, 708	78, 962, 548
Cairo, Illinois.....	20, 000	967	19, 340, 000	New Orleans, Louisiana.....	401, 805	1, 980	973, 773, 900
Saint Louis, Missouri.....	100, 000	1, 167	116, 700, 000	Louisville, Kentucky.....	596, 249	598	356, 556, 902
Memphis, Tennessee.....	126, 160	1, 205	152, 022, 800	Baton Rouge, Louisiana.....	9, 460	1, 848	17, 482, 080
Helena, Arkansas.....	10, 000	1, 284	12, 840, 000	Madison, Indiana.....	44, 000	570	25, 080, 000
White river, Arkansas.....	10, 000	1, 378	13, 780, 000	Parkersburg, West Virginia.....	2, 300	183	420, 900

C.—AMOUNT OF COAL SHIPPED FROM POINT PLEASANT TO PLACES NAMED.

Total.....	1, 067, 857	.....	231, 087, 122	Greenville, Mississippi.....	652	1, 201	783, 052
Cincinnati, Ohio.....	1, 010, 181	203	205, 066, 743	Memphis, Tennessee.....	539	941	507, 199
Louisville, Kentucky.....	46, 315	334	15, 469, 210	Frankfort, Kentucky.....	506	338	171, 028
New Orleans, Louisiana.....	481	1, 716	825, 396	Orange, Kentucky.....	1, 567	373	584, 491
Baton Rouge, Louisiana.....	1, 176	1, 584	1, 862, 784	Lawrenceburg, Kentucky.....	476	226	107, 576
Donaldsonville, Louisiana.....	183	1, 640	300, 120	Vanceburg, Kentucky.....	109	111	12, 099
Bayou Sara, Louisiana.....	1, 602	1, 549	2, 481, 498	Portsmouth, Ohio.....	1, 639	90	147, 510
Vicksburg, Mississippi.....	2, 023	1, 336	2, 702, 728	Augusta, Kentucky.....	408	161	65, 688

COAL TRAFFIC ON THE OHIO—Continued.

D.—AMOUNT OF COAL SHIPPED FROM POMEROY TO PLACES NAMED.

TO—	Tons.	Miles.	Tons moved 1 mile.	TO—	Tons.	Miles.	Tons moved 1 mile.
Total	136,900		23,780,489	Frankfort, Kentucky	1,691	353	596,923
				Maysville, Kentucky	49,383	156	7,703,748
Cincinnati, Ohio	30,324	218	6,610,632	Vanceburg, Kentucky	2,400	126	302,400
Louisville, Kentucky	8,424	349	2,939,976	Ripley, Ohio	8,800	165	1,452,000
Portsmouth, Ohio	25,994	105	2,729,370	Richmond, Ohio	3,200	197	630,400
Huntington, West Virginia	2,684	60	161,040	Manchester, Ohio	2,000	145	290,000
				Chilo, Ohio	2,000	182	364,000

E.—AMOUNT OF COAL SHIPPED FROM ASHLAND TO PLACES NAMED.

TO—	Tons.	Miles.	Tons moved 1 mile.
Total	42,530		6,013,350
Cincinnati, Ohio	40,850	147	6,004,950
Ironton, Ohio	1,680	5	8,400

The 7 tables of classified details (Tables 13 to 19, inclusive) may safely be considered as self-explanatory, and as really being prepared and presented more as a matter of comprehensive convenience than as furnishing any new lesson.

STATISTICS OF 1880 AND 1889.

In considering the comparative statistics embraced in Tables 20 to 28, inclusive, some peculiar conditions are encountered. As will be seen by the comparative table of equipment (Table 20), there were registered in the ports of the Mississippi valley in 1880 1,198 steamers, which had a tonnage of 251,792.85 and a value of \$12,009,400, while in 1889 the registered steamers numbered 1,114, with a tonnage of 210,771.89 and a value of \$10,539,251, a decrease of 84 steamers, of 41,020.96 tonnage tons, and of \$1,470,149 in value. On the other hand, it will be found that while in 1880 the unrigged craft of the Mississippi valley numbered 3,854, with a tonnage of 909,824.01, the unrigged in 1889 had risen to 6,339 in number, with a tonnage of 3,182,608, an increased number of 2,485, with an increased tonnage of 2,272,783.99. Notwithstanding this increase of tonnage and number, the valuation of the unrigged remains almost stationary. So far as the valuations are concerned, however, they may be considered as a varying quantity. The schedule calls for "estimated commercial value", and the figures set down will run high or low according to the basis upon which the estimator places his value. In some cases a man estimates his vessels at what they cost, while in other cases he estimates them only at what he supposes they would realize in sale, while the insurance agent may have a third estimate; then, too, the depreciation in value has to be considered as a factor in these estimates, although in this case there is no depreciation sufficient to balance the positive increase of craft. A reasonable explanation of difference of estimate arises in the fact that the values given for 1880 are those which were made by local or general experts, while those for 1889 were returned by the owners themselves, and that these owners from first to last manifested a very conservative spirit in rating the value of their property. The same difference in values will be found in the total of all craft owned on the Mississippi valley, for while the total number for 1880 stands at 5,052 and that for 1889 at 7,453, an increase of 2,401, and the total tonnage for 1889 shows an increase of 2,231,763.03 tons, still the valuation remains almost stationary. It is repeated that it is a safe estimate that there is an undervaluation of at least 30 per cent on all these vessels reported for 1889, and calculating on this basis there is an omitted value of \$6,572,145 for 1889, which, added to the estimated commercial value as reported, will give the total valuation for all the craft of the Mississippi in 1889 of \$21,907,150, figures which are somewhat nearer the mark.

NEW METHODS OF TRANSPORTATION.

The decrease in the number of the Mississippi valley steamers must not be taken as an indication of a waning industry. The explanation lies in the new method of transportation as indicated in the increased number and value of unrigged. The exceedingly large barge tonnage on the Ohio has already been referred to, and in addition to this it may be said that at Pittsburg itself there are owned no fewer than 3,581 barges, having a tonnage of 1,982,407 and a value of \$2,145,765, or an average of nearly \$600. Some of the barges rise in value, however, to \$2,000, while there are others, employed by the wood sellers on the small streams, for which \$50 would be a generous estimate. Wood, of course, is the material most generally used, but iron is also freely employed, and steel appears to be coming into favor as a material of construction.

The main employment of the great Pittsburg fleet of barges is in the transportation of coal, and concerning this industry the text of the Tenth Census report on steam navigation of the United States contained the following interesting description:

COAL BARGES OF THE OHIO.

This coal is mined along the banks of the Monongahela river, which has been improved by a series of dams and locks, dividing it up into what are called pools or pockets. Here the small tows, consisting of 3 or 4 loaded barges, are made up and taken out through the locks to Pittsburg, where they are combined in still larger tows for transportation to Louisville. Here they are again combined into immense tows of 30 or more barges and boats for the final trip down the Mississippi. The steamer is put behind these barges and all are bound together in one firm mass by means of ropes and chains tightened by ratchets, and the steamer used as a rudder to guide the field of barges around the bends in the river, great skill being required in the strong currents in performing this task, called "flanking". * * * Coal boats contain about 24,000 bushels or 900 tons, and cost from \$700 to \$800 when new. A tow from Pittsburg to Louisville consists of from 12 to 16 barges, or 8 to 10 coal boats, and from Louisville to points below, from 16 to 20 boats and barges. One of the largest tows that was ever taken down from Louisville contained 38 pieces, measuring 862 feet in length, 260 feet in width, and contained 679,854 bushels, and beside this the steamer carried 19,500 bushels, making a grand total of 699,354 bushels, or 25,902 tons. It is claimed that in this traffic is found the cheapest freight rate in the country, as coal has been put into New Orleans, 2,000 miles from Pittsburg, at 60 cents per ton.

This change in method was indicated in the text of the Tenth Census. In speaking of the river interests of the Mississippi in that chapter of Volume IV entitled "Steam navigation in the United States", it says:

The growth of this model barge system on the western rivers has been steady for the past 4 years, and it is now assuming an importance in the commerce of the west worthy of attention. Of the better class of barges * * * there were on the Mississippi and Ohio 286 reported to this office, measuring 158,771.50 tons actual capacity. * * * In the movement of bulk grain and heavy freights this system is gradually supplanting the ordinary steamer, and it has many advantages. By economy of time and steady movement the barge tug would equal the steamer in speed, making the run from Saint Louis to New Orleans with 5 to 7 barges in about 5 days, at a cash expense of \$1,000. The round trip will not exceed 16 or 17 days. The capacity of the barges varies from 18,000 to 100,000 bushels, the medium being about 35,000 bushels, so that an average tow consists of 7 barges containing 232,834 bushels, or about 7,000 tons.

INCREASE OF TOWED FREIGHT.

This relation of cause and effect is seen to be consistently carried out in the fifth comparative table (Table 24), showing the comparative freight movement in 1880 and 1889. On the steamers, in the first-mentioned year, there were transported 13,557,884 tons of freight, while in 1889 the actual transportation of freight by steamer was but 10,345,504 tons, a decrease of 3,212,380 tons. But while the business of the freight steamer has decreased, it will be seen that the towed freight has very materially gone up, the figures for 1880 being 5,388,638 tons, while in 1889 they had risen to 19,059,542 tons, an increase of 13,670,904 tons of towed freight. The decreased steamer-carried freight will of course diminish this gain, but even when the 3,212,380 tons decrease in steamer freight is taken from the 13,670,904 tons of towed freight there remains a net increase of 10,458,524 tons of freight moved on the rivers of the Mississippi valley in 1889 over the total of 1880, although it is but proper to state here that this increase would probably suffer a diminution if the barge movement for 1880 had been as fully reported as it has been for 1889. On the other hand, it must be understood that 1889 was what is known as a poor year, nearly all of the rivers having suffered from low water. The passenger business has kept up much more steadily than it had been imagined would be the case, and it will be seen that in both the "ferry" and "regular" divisions of the passenger returns the ratio of increased travel has run very steadily with that of population.

COMPARED EARNINGS.

Turning back to the comparative expense account shown in Table 22, it will be seen that only the gross earnings are compared, this limitation being necessary because in the returns for 1880 only that portion of the account was asked for. There is an apparent contradiction here, for while the traffic has increased, as has been shown, the amount of gross earnings has diminished. In 1880 the gross earnings of the Mississippi valley fleet were \$20,293,173, while in 1889 they were reported at but \$16,337,533, a difference of \$3,855,640. Much of this difference can be ascribed to the same set of causes which operate in the returns of valuation, while much more can be ascribed to the diminished earnings of water transportation due to increased competition of railroads. A poor paying business especially affected the Upper Mississippi and the Missouri, as will be seen by the comparative returns for these two parts of the valley system. The business was done for whatever could be had, and in many cases the shipper fixed his own rates. Then, too, the diminution of earnings on the Upper Mississippi and Missouri is attributable to the fact that these are branches of the system where the old methods of transportation still largely obtain, while on the Lower Mississippi, where the new methods of transportation have so rapidly come into vogue, the increase of gross earnings is equally noticeable. On the Ohio the decrease can only be ascribed to the effect of ardent competition. It must be remembered, however, that these are gross earnings, and that in the absence of the expense account they offer no indication whatever of profits. The bulk of the business on the Mississippi and its branches is rapidly passing into the hands of large concerns, which are enabled to control their expenses in such a way as to considerably diminish their gross earnings and yet maintain their net profit.

In Table 23 there are two interesting columns which show the total crews and the amount paid in wages during 1880 and 1889. By the term "total crews", it is repeated, there must be understood the total number of men making up the totals of the ordinary crews required on board each craft, and not the total number of men employed during the year. Here it will be seen that the total number of men has fallen from 23,616 to 15,996, a diminution of 7,620 men, while the wages paid have only dropped from \$6,979,226 to \$5,338,862, a decrease of \$1,640,364, two decrements which do not preserve their ratio. On looking for an explanation of this, it is found set down in the last 3 columns, which show that the rate of wages per man per annum has increased in every part of the system with the exception of the Missouri, and that the whole annual rate of wages has increased \$38.23 per man. The increase, it will be observed, is largest on the Lower Mississippi, and next stands the Ohio, two branches of the valley system where transportation by barges is most practiced. Though the total number of crews has decreased in consequence of the diminution of freight steamers, the smaller number of men who are employed on the barges are men in the receipt of a much higher rate of wages than those whose services have been dispensed with.

FLUCTUATIONS OF FLEETS.

The fluctuations in the documented fleets of the Mississippi valley rivers for the 10 years 1880 to 1889, inclusive, are clearly shown in the 3 tables, 25, 26, and 27, which were carefully prepared from information furnished by the courtesy of the commissioner of navigation and the bureau of statistics.

Two things will be noted from a glance at Table 25: first, that the number of steamers which the commissioner reports as having been documented in 1880 is not the same number as is given by the census for that year as the fleet of the valley, and, second, the very decided drop from the barge fleet of 1880 to that of 1881.

With respect to the first difference it may be stated that the 1,225 steamers which the commissioner reports as the documented fleet of the Mississippi valley also include those steamers which traded from New Orleans seaward, while the 1,198 steamers which the census states formed the fleet for that year do not include those steamers. No division of this sort was made in the commissioner's report until the year 1883, when the New Orleans river fleet was segregated, the number for the port in that year standing at 132 as against 172 for the previous year, and the actual river fleet for the whole valley being set at 1,163 as against 1,226 for 1882.

The very remarkable drop in the barge fleet from 1,070 in 1880 to 233 in 1881 is due to the fact that it was about this time that the law went into effect by which the registration of barges was only compulsory in those cases wherein these craft were employed in the carriage of bonded goods. It may be added here that the still greater difference between the number of barges (1,070) reported on by the commissioner for 1880, and the number (3,854) reported on by the census for the same year is due to the other fact that for this year, as for every other year, the commissioner only reports upon registered barges, while the census reports on every unrigged craft owned and operated. The same explanation can be applied to the number of barges (132) given by the commissioner as the barge fleet in Table 25 for the year 1889, and the number (6,339) given in Tables 1 and 20 as the census barge fleet for the same year.

INDIVIDUAL CASES.

In looking at the number of steamers registered in the customs districts (Table 26), it is found that in this particular Cincinnati has almost stood still, its registration for 1880 being 116, and for 1889 115, its lowest point being in 1884, when its registered fleet was 101, and its highest number being the 116 which made its entry for both 1880 and 1888.

In point of number Saint Louis has very perceptibly and steadily decreased, the series running 162, 153, 163, 160, 136, 141, 129, 132, 123, 115.

Wheeling shows a similar decrease, its series being 142, 137, 144, 110, 109, 112, 101, 109, 109, 94.

Pittsburg, however, shows a far less depreciation, its series of registered fleets being 168, 160, 169, 157, 163, 155, 154, 158, 155, 152.

On the other hand, the customhouse books at Memphis have shown an increase in number, the 1880 fleet numbering 66 and the 1889 fleet numbering 71, the lowest point being 65 in 1881, and the highest being 82 in 1887.

Dubuque has remained almost stationary. In 1880 it had 29 registered steamers and in 1889 it had 28, the average annual registered fleet numbering 25.70.

Vicksburg, with the exception of a temporary obscuration in 1881 and 1882, has maintained a singularly unvarying fleet, the figures for 1883 onward being 28, 30, 32, 30, 30, 30, 30, this being the steadiest record of all the ports, with the exception, perhaps, of Natchez and the district of Minnesota, the first-mentioned district running 3, 5, 4, 4, 3, 3, 4, 4, and the second 48, 45, 48, 46, 48, 44, 46, 49, 47, 46.

Louisville's variation has been but little, too, so far as the number of registered craft is concerned, the fleet of 1889 being 52 against a 53 fleet for 1880.

Burlington took a sudden advance in 1881, showing 42 registered steamers against 31 for the preceding year, but from 1881 onward the registrations have changed very little, the series being 42, 43, 45, 46, 45, 45, 43, 42, 43.

Lacrosse has a record of tolerably steady increase, its fleet running at 39, 44, 45, 35, 43, 40, 41, 45, 45, 47.

Galena also comes very close to maintaining the same standard, the series being 25, 23, 23, 25, 23, 24, 23, 26, 26, 27, a deflection of 2.50 from an average of 24.50.

Evansville shows more fluctuations, and Omaha still more, while New Orleans, from and inclusive of 1883, has experienced but few variations, the series being 132, 138, 127, 125, 129, 127, 126.

Nashville does not appear, it will be observed, after 1887, its registrations being now merged in those of Paducah, which port began registering in 1884. The latter's increase since that time has been the most remarkable of any on the list, the series being 9, 18, 23, 29, 42, 53.

Cairo ceased to be a port of entry in 1885, the 18 steamers it then had being distributed among other ports.

Chattanooga only came into record as a port of entry in 1882, the number of registered steamers that year standing at 13, and for the 7 succeeding years at 17, 16, 18, 15, 17, 20, 22.

Kansas city and Saint Joseph are also comparatively new ports of entry, the first beginning to record in 1883, the series since that time being 11, 11, 13, 13, 13, 16, and the second beginning to record in 1885, with a continued series of 3, 4, 6, 6, 6.

CHANGES IN REGISTERED TONNAGE.

Passing next to a consideration of the registered tonnage in the customs districts, it is found that New Orleans has experienced a moderate decrease, the figures running down from 21,199 tons in 1883 to 19,249 tons in 1889.

Natchez, on the other hand, has made a considerable advance, for though its registered tonnage was never large it has increased from 192 tons in the first year of the decade to 592 tons in the last year. Its average annual registration of tonnage was 359.11, the 2 years mentioned showing the highest point above and lowest point below the average, with 1885 as the year when the registered tonnage, 303 tons, was closest to the average.

Vicksburg shows an average annual registration of 2,735 tons, the year of greatest registration being 1885, with 3,638 tons, the year of lowest registration (omitting 1882) being 1886, with 2,556 tons, and the year 1887 coming closest to the average, with 2,723 tons.

Memphis has had many fluctuations of registration, that of the year 1889, being the year of average registration, with 12,114 tons; 1884, with 14,977 tons, marking the highest limit, and 1882, with 10,426 tons, marking the lowest limit.

As has been already stated, Nashville ceased to be a port of registration after 1887, its registered tonnage in that year being about the same as it was in 1880, the exact figures being 3,469 tons and 3,621 tons.

Chattanooga, on the other hand, and as has also been stated, only came into existence as a port of registration in 1882, the customhouse entries from that time onward being a continually increasing one and rising from 1,567 tons to 3,966 tons in 1889.

Louisville has experienced a marked declination, the registered tonnage in 1880 being 17,750 tons, and that in 1889 being 11,938 tons. The year 1884 was the year of highest registration of this port, the returns showing entries amounting to 18,175 tons.

The record of Paducah has been a very remarkable one. The first registrations of tonnage were made in 1884, when they amounted to 652 tons, while in 1889 they had risen to 8,781 tons.

Saint Louis's decline in registered tonnage has been even more marked than that of Louisville, for while in 1880 it was 59,699 tons, in 1889 it was but 42,827 tons. Its best year was 1883, when the registered tonnage amounted to 62,350 tons.

The record of Kansas city is almost as remarkable as that of Paducah, the first registrations being in 1883 and amounting to 113 tons, those of 1889 standing at 1,781 tons.

DISTRICT RECORDS.

The port of Saint Joseph, which only began an existence as a port of registration in 1885 with 297 tons, showed entries amounting to 747 tons in 1887, that number decreasing to 341 tons in 1889.

One of the ports of steadiest record has been that of Burlington, its tonnage list in 1880 being 2,414 tons and that of 1889 being 5,059 tons, the average registration being 4,510.40 tons.

Dubuque has an almost corresponding record, the registered tonnage for 1880 being 3,697 tons and that of 1889 being 6,355 tons, with an average registered tonnage of 4,455.30.

Lacrosse has experienced a very notable decline in importance as a port of registration. The records for 1880, 1881, and 1882 give over 6,000 tons for each year. Then came a drop to 3,028 tons in 1883, since which time, however, the entries have crept up little by little, until in 1889 they amounted to 3,884 tons.

The district of Minnesota has about stood still, the registrations in 1880 amounting to 5,873 tons, and those in 1889 amounting to 5,214 tons, the average annual registration being 6,146.80 tons.

The port of Galena has shown a slow but healthy increase, the tonnage registered in 1880 being 2,267 tons, and that in 1889 being 3,130 tons, the average annual registration being 2,634.60 tons.

Cairo ceased to be a port of registration in 1885, at which time the customhouse books showed a registration of 3,508 tons.

Though the registered tonnage of Evansville was greater in 1889 than it was in 1880, the figures being 6,951 tons against 5,709, each year was below the annual average registration of 7,123.30 tons, the years of largest entries being 1884, 1885, 1886, and 1888, when it was over 8,000 tons for each year.

Cincinnati has experienced the same decrease in registered tonnage that has marked so many of the other great ports of the Mississippi valley, the tonnage registered in 1880 being 39,931 tons and that in 1889 being 31,407, with an annual average registration of 34,170.50.

Wheeling, Pittsburg, and Omaha all show an equally perceptible diminution, the 1880 figures for these 3 ports being, respectively, 16,712 tons, 39,483 tons, and 5,887 tons, while the 1889 figures of the same ports are 9,769 tons, 32,263 tons, and 1,330 tons.

The records for all the ports of the Mississippi valley, in fact, show a steady diminution of registered steamer tonnage from 256,915.99 tons in 1880 to 209,826.07 tons in 1889, a loss of 47,089.92 tons. This decrease, however, it should be repeated, must not be taken as indicating a decaying industry, but only as an evidence of that gradual change in conducting transportation on the rivers of the Mississippi valley to which reference has already been made once or twice in the body of this text—the fact that the large-tonnaged freight-carrying steamers are each year dropping into disuse, their places being taken by small-tonnaged but powerful towing boats, which are employed in the movement of unregistered barges. A computation from the entries made on Table 26 of the number, tonnage, and average vessel tonnage for each port for each of the 10 years under consideration will furnish an additional evidence of this, for while the average vessel tonnage of all the craft in 1881 was 207, and 208 in 1884, it had dropped to 191 in 1887 and to 188 in 1889.

A RECORD OF SHIPBUILDING.

Still another evidence of the same altered condition of affairs is found in Table 28, which shows the number and tonnage of all steam vessels and barges built in the customs districts of the Mississippi valley during the 10 years 1880 to 1889, together with data showing the number and tonnage of side-wheel steamers, stern-wheel steamers, and propellers built during each year in each district. It will be seen from the figures therein presented that while in 1880 30 side-wheelers were built, with an aggregate tonnage of 11,449.60, in 1889 but 2 side-wheelers were built, with an aggregate tonnage of 980.54. At the same time the number of propellers rose from 12 in 1880, with an aggregate tonnage of 689.72, to 16 in 1889, with an aggregate tonnage of 1,286.69, the years 1881, 1882, and 1883 being marked by an exceptional activity in propeller building. The building of stern-wheel steamers of comparatively small tonnage has been marked by very little variation for the past 5 or 6 years.

One of the most interesting in the whole series is Table 29, which gives the amounts appropriated by Congress for the survey, improvement, and maintenance of the water ways of the Mississippi valley from 1819 to 1890, inclusive. Before referring to these figures, however, it would be well to make it clear that the rivers of the Mississippi valley must be consolidated in 3 groups:

First. The rivers, tributaries, and subtributaries making up the fluvial system of the Mississippi valley, irrespective of the questions of navigability or commercial operations.

Second. The rivers of the Mississippi valley which have either been improved or surveyed with a view to improvement by government aid.

Third. The rivers of the Mississippi valley on which a transportation was conducted in 1889.

THE NATURAL GROUP.

The rivers belonging to Group I are as follows: the Mississippi, the Ohio, and the Missouri.

The Ohio is formed by the junction of the Allegheny and Monongahela, which unite at Pittsburg, and these two rivers therefore may rather be considered as rivers of formation than as affluents.

The Allegheny has for its tributaries the Clarion, the Red Bank, and the Kiskiminitas.

Into the Monongahela flow the Buckhannon, the Cheat, and the Youghiogeny.

The tributaries of the Ohio, not considering the Allegheny and Monongahela as such, and which flow into it from the north, are the Muskingum, the Raccoon, the Scioto, the Little Miami, the Miami, and the Wabash.

The subtributaries of this part of the Ohio system are the Mohican, which flows into the Muskingum; the Point, which flows into the Scioto and the Tippecanoe, and the White, with its various forks, flowing into the Wabash.

The tributaries of the Ohio flowing into it from the south are the Little Kanawha, the Great Kanawha, the Guyandotte, the Big Sandy, the Licking, the Kentucky, the Green, the Tradewater, the Cumberland, and the Tennessee.

The Little Kanawha receives as its tributary the Hughes.

The Great Kanawha has several tributaries, chief of which are the Blue Stone, the New, the Greenbrier, the Gauley, the Elk, and the Pocataligo.

The Big Sandy has 3 important tributaries, although they may be considered as forks, their names being the West fork, the Levisa fork, and the Tug fork.

The Green receives the waters of the Rough and Barren.

The Cumberland has a fork, the Caney, and a tributary, the Obey river.

The tributaries of the Tennessee are numerous and mostly important. The list includes Powells, the Clinch, the Holston, the French Broad, the Little Tennessee, the Hiwassee, and the Duck.

The tributaries of the Upper Mississippi which flow into it from the north and east are the Prairie, the Rum, the Saint Croix, the Chippewa, the Black, the Wisconsin, the Galena, the Rock, and the Illinois.

The important tributaries of the Saint Croix are the Yellow and the Totogatic.

The Chippewa has a large tributary named the Flambeau.

Because of an artificial channel the Fox may now be considered as a tributary of the Wisconsin.

The Rock has a tributary named the Green.

The principal tributaries of the Illinois are the Kankakee, the Des Plaines, the Vermilion, the Mackinaw, the Spoon, the Sangamon, and the Fox, which of course must not be confounded with the Fox of Wisconsin.

The tributaries of the Upper Mississippi on the south and west are the Minnesota, the Cannon, the Grand, the Zumbro, the Iowa, the Des Moines, the Salt, and the Cuivre.

The Minnesota has as chief tributaries, the Yellow Medicine and the Chippewa, which must not be confounded with the Chippewa of Wisconsin.

The Red River of the North may now also be considered a tributary of the Minnesota, communication having been effected between the two via Portage lake.

The Iowa has for its tributary the Red Cedar.

The chief tributaries of the Missouri are the Big and Little Sioux, the James or Dakota, the Milk, the Yellowstone, the Little Missouri, the Cheyenne, the White, the Niobrara, the Platte, the Kansas, the Osage, and Gasconade, and the 3 rivers of formation, the Jefferson, the Madison, and the Gallatin.

The chief tributaries of the Yellowstone are the Bighorn and the Powder.

The principal tributaries of the Cheyenne are its forks and the Cherry creek.

The Niobrara has a number of tributaries, the principal of which are the Snake and the Keya Paha.

The Milk river has a number of tributaries, but the most important of them are known either as branches or forks.

The Platte can not be said to have any tributaries of importance, its formation occurring at North Platte, in Lincoln county, Nebraska, by the union of the North and South Platte rivers.

The Kansas has many tributaries, of which the principal are the Delaware, the Vermilion, the Big Blue, the Republican, the Solomon, the Saline, and the Smoky Hill.

The tributaries of the Lower Mississippi which flow into it on the east, omitting of course the Ohio, are the Kaskaskia, the Obion, the Forked Deer, the Big Hatchie, the Yazoo, and the Big Black.

The tributaries of the Forked Deer are all known as forks.

The Yazoo has for its chief tributaries the Big Sunflower, the Coldwater, the Tallahatchie, the Yalobusha, and the Tchula, although this latter is generally called a lake.

The tributaries of the Lower Mississippi which flow into it on the west are the Saint Francis, the Arkansas, the Red, and the Atchafalaya, and the many bayous, chief of which are the Bayou Lafourche and the Bayou Terrebonne.

The Saint Francis receives the waters of the Little (of Missouri) and the L'Anguille.

The White river can no longer be considered an individual affluent of the Lower Mississippi, the latest maps of the United States engineers showing it to empty into the Arkansas a few miles above the junction of that river with the Mississippi. It must therefore at this time be considered as a tributary of the Arkansas.

The other tributaries of the Arkansas are the Cimarron, the Canadian, the Petit Jean, and the Fourche la Pave.

The White has for tributaries the Little Red, the Black (of Missouri), the Current, and Cache creek.

Regarding the Washita and Red rivers, a difference of opinion seems to prevail as to which is the branch and which is the main stream, or whether each is distinct from the other; and, indeed, it is a difficult matter to keep any strict list of these constantly varying rivers. The identification of the streams is made all the more difficult because there are two Washitas and a Wichita. One of the Washitas flows southward through Arkansas into Louisiana, while the other comes down from Indian territory into Texas and joins the Red river not far below the confluence with the Wichita. In the present condition of the rivers, as shown by the engineers' map, it would seem best to set down the Red river as the main stream into which flows the Black as its principal tributary, the Black being made up of the Tensas, the Washita of Arkansas, the Saline, which must not be confounded with the tributary to the Kansas of the same name, and a number of bayous, the principal of which are the Bayou Macon, the Bayou Bœuf, the Bayou Bartholomew, the Bayou D'Arbonne, the Little river (of Arkansas), and the Caney.

THE IMPROVED GROUP.

The rivers belonging to Group II are as follows: the Mississippi, the Missouri, and the Ohio.

The Saint Croix, the Chippewa, the Illinois, the Galena, the Wisconsin by its junction with the Fox, the Minnesota, the Cuivre, and the Red Cedar.

The tributaries of the Ohio which have been improved or surveyed by congressional aid are: the Guyandotte, the Licking, the Tradewater, the Monongahela, the Muskingum, the Little Kanawha, the Great Kanawha, the Big Sandy, the Kentucky, the Green, the Wabash, the Cumberland, and the Tennessee.

The subtributaries which have been improved or surveyed by congressional aid are: the Cheat and the Buckhannon, belonging to the Monongahela; the Elk and the Gauley of the Great Kanawha; the Big fork and the Levisa fork of the Big Sandy; the Rough creek of the Green, and the White river (of Indiana) of the Wabash; the Obey river and Caney fork of the Cumberland, and the Tug, the Clinch, the Hiwassee, the French Broad, and the Little Tennessee of the Tennessee.

The tributaries of the Lower Mississippi which have received congressional aid either for improvement or survey are: the Forked Deer, the Saint Francis, the Big Black, the Big Hatchie, the Kaskaskia, the White, the Arkansas, the Yazoo, the Washita, the Black, and the Red.

The subtributaries of these various streams which have been improved or surveyed under congressional appropriations are: the L'Anguille and the Little (of Missouri), tributaries of the Saint Francis; the Black (of Missouri), the Little Red, and Cache creek, belonging to the White; the Fourche la Pave and the Petit Jean, tributaries of the Arkansas; the Big Sunflower, the Coldwater, the Yalobusha, the Tallahatchie, and the Tchula, tributaries of the Yazoo; the Little Missouri (of Arkansas), the Tensas, and Saline, tributaries of the Washita and Black, and the Little (of Louisiana) and the Caney, tributaries of the Red.

Of the various bayous which may be considered as tributaries to the Lower Mississippi system, those which have been either improved or surveyed by congressional aid are: the Bartholomew, the Black, the Bœuf, the Courtableau, the D'Arbonne, the Lafourche, the Loggy, the Pierre, the Atchafalaya, the Vidal, the Teche, the Terrebonne, the Steel, and the Cypress.

THE COMMERCIAL GROUP.

The rivers belonging to Group III are as follows: the Mississippi, the Ohio, and the Missouri.

Of the Ohio system there are: the Allegheny, the Monongahela with its tributaries, and the Buckhannon; the Little Kanawha, the Great Kanawha with its tributaries, the Elk and the Gauley; the Guyandotte, the Big Sandy, the Licking, the Kentucky, the Green and its tributary, the Barren; the Tradewater, the Cumberland and its tributary, the Caney fork; the Tennessee and its tributaries, the Clinch, the French Broad, and the Hiwassee; the Muskingum, the Wabash and its tributary, the White.

The tributaries of the Upper Mississippi on which a transportation business was done in 1889 were the Saint Croix, the Chippewa, the Minnesota, and the Illinois.

The tributaries of the Missouri on which a transportation business was done in 1889 were the Osage and Gasconade.

The tributaries of the Lower Mississippi system on which a transportation business was done in 1889 were the Saint Francis with its tributaries, the Little and the L'Anguille; the White with its tributaries, the Little Red, the Black, and Cache; the Arkansas and its tributaries, the Petit Jean and the Fourche la Pave; the Red and its tributaries, the Black, the D'Arbonne, the Washita, and the Saline; the Yazoo and its tributaries, the Big Sunflower, the Tallahatchie, and Coldwater; and the Atchafalaya.

The bayous on which a transportation business was done in 1889 were the Bayou Macon, the Bayou Bœuf, the Bayou Courtableau, the Bayou Lafourche, and the Bayou Terrebonne.

EXTENT OF THE MISSISSIPPI VALLEY.

There are no figures at hand from which to give the actual mileage of the streams embraced in Group I, but it is a very conservative estimate to place it at 100,000 miles. The extent of country included in the drainage area of the whole Mississippi valley is something enormous, including over 1,500,000 square miles. In the statistical atlas issued by the census for 1870 the following figures were given as the area of the valley, preceded by the subjoined text:

The Mississippi system is divided into the basin of the Mississippi, which is again divided as Upper and Lower, by a line drawn between Alton and Cairo; the basins of the Ohio, the Missouri, the Red, the Arkansas, and the Rio Grande (the portions of the latter outside the territory of the United States being excluded from the computation as respects both area and population); * * the Alabama basin, * * * including large portions of Mississippi on the west and of Georgia and Florida on the east * * *; and, last, the basin of central Texas, embracing all the rivers between the Rio Grande and the Bayou Teche.

	AREA, SQUARE MILES.
Basin of the Upper Mississippi	179, 635
Basin of the Lower Mississippi.....	65, 646
Basin of the Ohio.....	207, 111
Basin of the Missouri	527, 690
Basin of the Red.....	92, 721
Basin of the Rio Grande.....	101, 334
Basin of the Arkansas.....	184, 742
The Alabama basin.....	145, 990
The Texas basin	178, 434
Total	1, 683, 303

The population of this area, it may be added, was 19,111,804 in 1870, the figures having risen to 24,298,332 in 1890. This population is found in those states which are immediately contiguous to the streams found in Group I,

which are traversed by them; or in those counties of the states lying immediately within their watershed, as, for instance, those counties of Pennsylvania which constitute the watershed of the Monongahela, Allegheny, and their tributaries. The rims of this great basin extend from the borders of New York to the central ranges of New Mexico, and from the eastern slopes of the Rockies in Montana to the peaks of the Great Smoky mountains of Tennessee.

NAVIGABLE AND UTILIZED WATERS.

The rivers contained in Groups II and III are, after all, those of the most practical importance, and in this respect Table 31 will be found of value. It has been made up in very many particulars from information courteously furnished the Census Office by Major H. M. Adams, of the corps of engineers, United States army, and shows the number of navigable miles of the rivers of the Mississippi valley, as they stood in 1889, and the number of miles over which a transportation business was conducted in the same year. From these parallel columns there can be seen with measurable exactness how many miles of navigable streams had been, so to speak, occupied. Of the navigable length of the great rivers, the Mississippi and Ohio, the whole was of course occupied, but in the various systems it will be seen there were many hundred miles of unemployed water. The navigable miles of the Upper Mississippi system, for instance, numbered 4,486, of which but 4,103 miles were operated on; the Ohio system had 4,406 of navigable miles, of which 4,178 were operated on, while out of the Lower Mississippi system of 6,228 navigable miles but 5,695 were operated on. The total navigable mileage of the valley was 15,410, of which 14,266 were reported on as having been used for purposes of transportation. Many of the unemployed 1,144 miles were probably unavailable during 1889 because of the prevailing low water, to which reference has already been made, while it is also quite within the possibilities that many of the miles of subtributaries were merged within the mileage of the larger streams without being individualized.

CONGRESSIONAL APPROPRIATIONS.

It was for the survey and improvement of these 15,410 miles of navigable rivers that \$76,827,463 has been appropriated by the United States government, less a small amount appropriated for the survey of some minor streams which have since been considered unworthy of improvement. Out of this amount, \$29,273,189 has been appropriated for the improvement of the Upper Mississippi system, which system, it will be remembered, includes not only the Saint Croix, Chippewa, Illinois, and Missouri, but also the subtributaries of these streams. Out of the \$29,273,189, \$12,792,679 was appropriated up to and including 1879, the earliest appropriation being made for the Missouri in 1832. In the 10 years 1880 to 1889, \$13,234,510 was appropriated for the streams of the Upper Mississippi system, while by the act of Congress passed in September, 1890, \$3,246,000 was appropriated.

The total appropriations for the Ohio system amounted to \$21,739,272. Of this amount \$9,396,351 was appropriated before or in 1879, the date of the earliest appropriation being 1827, the portion of the Tennessee below Chattanooga being the beneficiary. The balance was made up of \$10,011,921, appropriated in the decade 1880 to 1889, and \$2,331,000 appropriated by the act of Congress, September, 1890.

The total appropriations for the streams of the Lower Mississippi system were \$24,255,002, of which amount \$4,604,677 was appropriated before or in 1879, the earliest appropriation being made for the survey of the Lower Mississippi itself in 1819. The appropriations for this system for the decade 1880 to 1889 were quite large, standing at \$15,916,125, while the appropriations by the September act of the 1890 Congress amounted to \$3,734,200.

Of course the largest appropriations for any one river were those made for the Father of Waters itself; the sum set aside by government for the survey, improvement, and conservation of the whole Mississippi river being \$42,086,536, which only leaves \$34,740,927 to be divided among all its various affluents, tributaries, and subtributaries. The largest sums out of this remainder were \$6,659,250, which was secured by the Missouri; \$9,156,313, expended on the Ohio; \$4,215,051, given to the Tennessee, and \$2,679,500 appropriated for the Great Kanawha. The only other streams which go above the million-dollar limit are the Illinois, \$1,588,651; the Kentucky, \$1,347,000; the Cumberland, \$1,379,500; the Arkansas, \$1,296,875, and the Red, \$1,733,265.

With respect to the amounts appropriated for the improvement of the Mississippi river, omission should not be made of the explanatory fact that the \$42,086,536 only includes the appropriations up to the close of 1890, and for that portion of the river only which extends from the headwaters to New Orleans, that being the only portion of the stream which is included in this report of valley traffic. In the second session of the Fifty-first Congress an additional \$1,000,000 was appropriated for the valley portion of the river, while for the improvement of the mouth of the river the appropriations have amounted to \$7,597,500. The addition of all these various sums means that for the entire river the appropriations have amounted to \$50,684,036.

It may be added that the engineers of the United States army who have been employed on the various works of improving and maintaining navigation state that \$28,829,490 is still needed to carry out the contemplated projects. Supposing therefore that \$25,000,000 of this amount be granted, it will mean a total appropriation for all the water ways of the Mississippi valley proper of \$102,827,463, and for the Mississippi valley and the Gulf portion of the Mississippi river of \$110,424,963.

In addition to the tables of appropriations, there is here presented a chart showing the same figures in a more graphic form, the plan of construction being a modification of the genealogical tree.

DIAGRAM SHOWING THE MAIN STREAMS, TRIBUTARIES, AND SUBTRIBUTARIES OF THE GREAT FLUVIAL SYSTEM OF THE MISSISSIPPI VALLEY, WHOSE NAVIGABILITY HAS BEEN IMPROVED OR MAINTAINED BY CONGRESSIONAL APPROPRIATIONS; TOGETHER WITH THE SUMS OF MONEY SO APPROPRIATED FROM THE DATE OF EARLIEST APPROPRIATION UP TO AND INCLUDING THE ACT OF SEPTEMBER, 1890.

THE MISSISSIPPI VALLEY.	MAIN STREAMS OR SYSTEMS.	TRIBUTARIES.	SUBTRIBUTARIES.
	THE UPPER MISSISSIPPI. River..... \$16,999,600 Tributaries..... 5,614,339 Total for system 22,613,939 THE MISSOURI. River..... 6,234,000 Tributaries..... 425,250 Total for system 6,659,250 THE OHIO. River..... 8,867,313 Tributaries..... 12,871,959 Total for system 21,739,272	The Saint Croix..... \$100,500 The Chippewa..... 173,215 The Illinois..... 1,588,650 The Wisconsin (and Fox)..... 2,899,974 The Minnesota..... 127,500 The Cuivre..... 12,000 The Red Cedar..... 1,500 The Galena..... 166,000 The Hennepin canal..... 545,000 All tributaries..... 5,614,339 The Osage..... 260,000 The Gasconade..... 46,500 The Yellowstone..... 118,750 All tributaries..... 425,250 The Allegheny..... 252,500 The Monongahela..... \$755,733 Tributaries..... 18,500 The Muskingum..... 449,500 The Little Kanawha..... 211,175 The Great Kanawha..... 2,644,500 Tributaries..... 35,000 The Kentucky..... 1,347,000 The Green..... 135,000 Tributary..... 25,000 The Big Sandy..... 296,500 Tributaries..... 5,000 The Guyandotte..... 16,500 The Cumberland..... 1,343,000 Tributaries..... 36,500 The Licking..... 6,000 The Wabash..... 706,000 Tributary..... 107,000 Beaver river (dam)..... 250,000 The Tradewater..... 16,500 The Tennessee..... 4,006,551 Tributaries..... 208,500 All tributaries..... 12,436,459 Subtributaries..... 435,500 The Forked Deer..... 19,500 The Saint Francis (and Cache creek)..... 55,500 The White, of Arkansas..... 366,500 Tributaries..... 95,400 The Big Black..... 15,000 The Big Hatchie..... 32,000 L'Anguille..... 17,000 The Kaskaskia..... 6,000 The Arkansas..... 1,264,375 Tributaries..... 32,500 The Washita..... 351,500 Tributaries..... 62,500 The Little, of Missouri..... 8,000 The Yazoo..... 215,000 Tributaries..... 141,000 The Red river..... 1,725,265 Tributaries..... 8,000 Bayous..... 565,800 Miscellaneous..... 1,342,000 Miscellaneous..... 1,342,000 All tributaries..... 4,075,640 All subtributaries..... 905,200	The Cheat..... \$13,000 The Buckhannon..... 5,500 The Elk..... 29,000 The Gauley..... 6,000 The Rough..... 25,000 The Tug fork..... 2,500 The Levisa fork..... 2,500 Obey river..... 11,500 The Caney fork..... 25,000 The White, of Indiana..... 107,000 The Duck..... 13,000 The Clinch..... 35,000 The Hiwassee..... 34,500 The French Broad..... 121,000 The Little Tennessee..... 5,000 Subtributaries..... 435,500 The Current..... 7,000 The Black, of Missouri..... 80,000 The Little Red..... 8,400 The Fourche la Pave..... 26,500 Le Petit Jean..... 6,000 The Little Missouri, Ark..... 20,000 The Saline..... 21,500 The Tensas..... 21,000 The Big Sunflower..... 57,000 The Coldwater..... 21,000 Tchula lake..... 15,000 The Yalobusha..... 11,000 The Tallahatchie..... 37,000 The Little, of Louisiana..... 5,500 The Caney, via Little..... 2,500 Bartholomew..... 33,000 Black..... 25,000 Boeuf..... 31,000 Courtableau..... 31,200 D'Arbonne..... 11,000 LaFourche..... 132,500 Loggy..... 10,000 Pierre..... 13,600 Vidal..... 2,000 Teche..... 109,700 Terrebonne..... 38,800 Cypress..... 127,000 Steels..... 10,000 Subtributaries..... 905,200
THE MISSISSIPPI VALLEY. Upper Mississippi system..... \$22,613,939 The Missouri system..... 6,659,250 The Ohio system..... 21,739,272 Lower Mississippi system..... 24,301,290 Whole river, unspecified localities..... 1,295,712 Total for the Mississippi system..... 76,609,463 Red River of the North..... 218,000 Grand total for the valley..... 76,827,463	THE LOWER MISSISSIPPI. River..... 17,978,450 Tributaries..... 6,322,840 Total for system 24,301,290 Whole river..... 1,295,712	Early appropriations made for whole river without specified localities..... 1,295,712	T. J. V.

DEVELOPMENT OF AREAS AND INTERESTS.

In a series of resolutions passed by the board of directors of the merchants' exchange of Saint Louis in 1890 it was stated that with the improvement of that portion of the Mississippi below the metropolis of Missouri the increase of exports via the Gulf had kept steady pace, and that from very small beginnings in 1872 they had increased yearly until in 1889 nearly 20 per cent of the entire exports of corn from the United States was by this route. The freight on corn from Saint Louis to New Orleans has been less than 6 cents per bushel, making the freight to Liverpool via the river route less than 17 cents per bushel, and by the maintenance of this rate the rail rate to the east, both for home consumption and for export, was reduced to the minimum, viz, 12.88 cents per bushel, which it is claimed would not have been secured except for the competition of the river route.

In this connection it is interesting to find that the estimate has been made that with the uninterrupted and unimpeded navigation throughout the Mississippi the business of all the river cities would increase at least tenfold.

INCREASE OF NAVIGABLE MILES.

A very instructive lesson in the laws of compensation is furnished by the statistics of water transportation for the Mississippi valley, for while business has decreased in certain localities because of the sharp competition of the railroads running through adjacent and tributary states, this diminution has been more than counteracted by the extension of territory consequent upon the opening up of new streams. The following facts and figures are an evidence:

The improvement of the Washita has considerably enhanced the value of timber lands bordering the stream, and a line of steamers has been started to build up a trade between Arkadelphia and Camden.

Transportation on the Bayou D'Arbonne is now being done by boats of 1,000 bales of cotton capacity, while before the improvement of the bayou it had been restricted to boats of 500-bale capacity.

Before improvements 3 months was the average duration of the navigable season on the Bayou Bartholomew. That time has since been increased to 6 months. The commerce of this bayou included last year the movement of 3,000 bales of cotton, 100,000 sacks of cotton seed, 300,000 staves, 2,000,000 feet of square oak timber, and 3,000,000 feet of cypress logs, besides large quantities of logs and sundries. Before 1881 it required 14 days to make a trip to the head of navigation; now the time has been diminished to 7.

Before the improvements of the Big Sunflower in 1880 the river was navigable for light boats about 6 months in the year. At the present time it is navigable the year round and for much larger boats. The time length of the round trip, 180 miles, has been diminished from 8 to 5 days. All the country adjacent to the river has been rapidly improved, and plantations are being cleared up all along its banks where a few years ago it was a wilderness.

Prior to 1883 the commerce of the Forked Deer river, Tennessee, consisted chiefly of staves and lumber brought out on flatboats and rafts of saw logs, while about 1 boat in 3 was lost. Now the trip is made with safety and with less cost, while the commerce indicates that the whole country along the river is finding an outlet for its products.

The amount of commerce done on the Red river, Arkansas, prior to 1884, amounted to the movement of about 20,000 tons, while the census report for 1889 shows that on this river, together with its tributaries, there were carried and towed no less than 105,145 tons.

OPENING UP NEW COUNTRY.

Already the country contributing to the commerce of the Arkansas river has considerably increased, and it has been calculated that with the further improvement of this river the vast acreage of Indian territory and the products of the large extent of Kansas will find Fort Smith or Little Rock its eventual water outlet. Commencing at the head of navigation on the Arkansas and then following down through the fertile valley tributary to it, the cities of Wichita, Arkansas city, Fort Smith, Dardanelle, Little Rock, and Pine Bluff, 6 of the largest cities in the valley, which, together with their surrounding counties, have a population of over 400,000 inhabitants, depend very largely for their commercial growth and prosperity on the outlet furnished by this river, which in the census year carried 1,663,817 tons of freight. With the continued improvement of this river freights will be still further reduced, fully another million tons of freight will be transported, and the counties of Butler, Chautauqua, Cowley, Elk, Harper, Kingman, Sedgwick, and Sumner, all in Kansas, will be brought into tribute.

When the work of improvement on the Petit Jean, Arkansas, was begun in 1884, commerce on that stream was confined to 2 or 3 high-water trips a year of a light-draft boat, which brought out from 200 to 300 bales of cotton, while now the exports have increased tenfold, and it is estimated that, with the completion of the work, from 5,000 to 6,000 bales of cotton will be annually moved. This stream is the only outlet to the rich Petit Jean valley, while so far the only method of transportation is by wagon, over 1,000 tons of freight being each year brought into the town of Danville, Arkansas, by that means.

A similar condition of affairs exists on the Fourche la Pave, which drains the valley of the same name, a valley which both in mineral and agricultural products is one of the most extensively rich in the state of Arkansas.

Since 1886 the country bordering on the upper reaches of the White river has begun to contribute to the transportation returns of that stream. A marked improvement is noticeable in the agricultural lands, and those products which used to be hauled across the country in wagons from 50 to 80 miles, to Springfield and other points

on the railroad, are beginning to find a more accessible outlet by way of the river to Batesville and Newport. In the census year the freight transportation on the White river was 86,393 tons.

The amount of commerce done on the Upper Black in 1880, when the work of improvement was begun, amounted to about 18,000 tons, with perhaps about as much more on the lower river, while the census report for 1889 shows a movement (on the Washita and Black) of 93,707 tons. The vast tract of land through which the Black river runs is said to be susceptible of unlimited development, and it is calculated that the further improvement of the Black river would be the means of opening up at least 1,000,000 acres of rich farm land within a limit of 5 miles on each side of the river, land that has a capacity of producing \$25 per acre of cotton or corn.

BUSINESS OF THE TRIBUTARIES.

The commerce of the Tennessee river itself, that is, the commerce originating on that river, can not be said to have increased, but that of its tributaries has been very materially enlarged. The trade of the French Broad, for instance, may be said to have almost come into existence during the 10 years dating from 1880. The commerce has already developed largely, having reached 37,000 tons in 1889, the principal products being marble, logs, lumber, shingles, grain, and general merchandise, while, with the further improvement of the upper waters, the mineral wealth of the mountains lying about the headwaters will seek this river as its highway. The commerce on the Hiwassee, another tributary of the Tennessee, is also increasing, while that of the Clinch has risen from almost nothing to an annual movement of over 60,000 tons during the past 10 years.

Very similar conditions are observable in the case of the tributaries of the Cumberland. The trade of the Cumberland as a river of origin has not perhaps shown any more increase than has the Tennessee, but the commerce of the Caney fork and Obey river has almost entirely come into existence since 1880.

So, too, in the case of the Ohio, Allegheny, Monongahela, and Kentucky. The trade originating on these large streams has not materially, if at all, increased, but new tributaries have been and are being brought into operation year after year, together with the consequent improvement of the adjacent country. The commerce of the Licking, which in the year 1889 amounted to 24,801 tons, may be said to date its activity from 1885, and a similar statement would apply to that of the Buckhannon, Elk, Cheat, and others.

Business on the tributaries of the Upper Mississippi and Missouri has also been marked by a promising extension.

CONDENSED RESULTS.

In looking over the list of rivers which form the great fluvial system of the Mississippi valley, it is found that during the census decade the trade of the valley has received accessions from the opening up of the Licking and Tradewater, tributaries of the Ohio; the Buckhannon and Cheat, tributaries of the Monongahela; the Gauley, a tributary of the Great Kanawha; the Tug fork and Levisa fork, tributaries of the Big Sandy; the Rough and Barren, tributaries of the Green; the South fork, Obey river, and Caney fork, tributaries of the Cumberland; the Duck, Clinch, French Broad, and Little Tennessee, tributaries of the Tennessee; the Forked Deer, Saint Francis, Cache creek, Big Black, Big Hatchie, and Little (of Missouri), tributaries of the Lower Mississippi; the Black (of Missouri) and the Little Red, tributaries of the White; the Petit Jean and Fourche la Pave, tributaries of the Arkansas; the Tchula and the Yalobusha, tributaries of the Yazoo; the Tensas, Macon, and Saline, tributaries of the Washita and Black; the Little (of Louisiana) and the Caney as tributaries of the Red, and a long list of bayous along the Lower Mississippi. The opening up of these streams has meant the addition of 2,840 navigable miles to the valley's total of navigable waters, the development of many thousands of square miles of hitherto unutilized land, the exploitation of rich mines hitherto lying idle, a continuation of low freights which otherwise would have been so high as to seriously embarrass if not practically close the movement of products, and such an addition of traffic that notwithstanding a natural decrease of transportation originating on some rivers the transportation on the fluvial system of the whole valley has received such accessions from these new districts that the freight movement for 1889 stands at 28,293,140 tons against a freight movement of 18,946,522 tons for 1880, an increase for the decade of 9,346,618 tons.

RIVER LANDINGS AND DISTANCES.

This text can not be brought to a better close than by giving a list of the trading points and landings on the chief rivers of the Mississippi valley, and while it would be impossible to present a complete catalogue of these places, the list on the following pages will be found to contain the principal localities. Wherever possible the distance between the points named is given.

MISSISSIPPI RIVER LANDINGS BETWEEN SAINT LOUIS AND SAINT PAUL (DISTANCES FROM SAINT LOUIS).

	Miles.		Miles.		Miles.
Saint Louis, Missouri.....	0	Rock Island, Illinois.....	329	De Soto, Wisconsin.....	534
Alton, Illinois.....	23	Davenport, Iowa.....	330	Victory, Wisconsin.....	540
Grafton, Illinois.....	39	Hampton, Illinois.....	340	Bad Axe, Wisconsin.....	548
Cap au Gris, Missouri.....	66	Le Claire, Iowa.....	346	Warners landing, Wisconsin.....	553
Hamburg, Illinois.....	88	Port Byron, Illinois.....	347	Brownsville, Minnesota.....	561
Clarksville, Missouri.....	102	Princeton, Iowa.....	352	Lacrosse, Wisconsin.....	571
Louisiana, Missouri.....	112	Cordova, Illinois.....	353	Dresbach, Minnesota.....	579
Hannibal, Missouri.....	140	Comanche, Iowa.....	362	Trempealeau, Wisconsin.....	589
Quincy, Illinois.....	160	Albany, Illinois.....	364	Winona, Minnesota.....	601
Lagrange, Missouri.....	170	Clinton, Iowa.....	369	Fountain city, Wisconsin.....	611
Canton, Missouri.....	177	Fulton, Illinois.....	371	Mount Vernon, Minnesota.....	620
Alexandria, Missouri.....	196	Lyons, Iowa.....	372	Minneiska, Minnesota.....	623
Warsaw, Illinois.....	197	Sabula, Iowa.....	388	Alma, Wisconsin.....	633
Keokuk, Iowa.....	202	Savanna, Illinois.....	390	Wabash, Minnesota.....	642
Montrose, Iowa.....	213	Bellevue, Iowa.....	410	Reads landing, Minnesota.....	645
Nauvoo, Illinois.....	216	Dubuque, Iowa.....	434	North Pepin, Wisconsin.....	649
Fort Madison, Iowa.....	224	East Dubuque, Illinois.....	435	Lake city, Minnesota.....	655
Pontoosac, Illinois.....	231	Wells landing, Iowa.....	448	Wacouta, Minnesota.....	669
Dallas, Illinois.....	234	Cassville, Wisconsin.....	463	Red Wing, Minnesota.....	676
Burlington, Iowa.....	248	Glenhaven, Wisconsin.....	474	Trenton, Wisconsin.....	680
Oquawka, Illinois.....	261	Clayton, Iowa.....	481	Diamond Bluff, Wisconsin.....	686
Keithsburg, Illinois.....	273	Wisconsin river, Wisconsin.....	488	Prescott, Wisconsin.....	698
New Boston, Illinois.....	279	McGregor, Iowa.....	492	Hastings, Minnesota.....	701
Port Louisa, Iowa.....	287	Prairie du Chien, Wisconsin.....	500	Newport, Minnesota.....	720
Muscatine, Iowa.....	301	Lynxville, Wisconsin.....	517	Saint Paul, Minnesota.....	729
Buffalo, Iowa.....	319	Lansing, Iowa.....	529		

MISSISSIPPI RIVER LANDINGS BETWEEN CAIRO AND SAINT LOUIS (DISTANCES FROM CAIRO).

Cairo, Illinois.....	0	Widow Poes, Missouri.....	59	Chester, Illinois.....	120
Birds, Missouri.....	0	Shepherd, jr., Missouri.....	59	Caldwell, Missouri.....	125
Saint Louis, Iron Mountain and South- ern railway, Missouri.....	2	Schatts, Missouri.....	60	Logans, Missouri.....	125
Greenfields, Missouri.....	4	Bainbridge, Missouri.....	61	Roziers, Missouri.....	127
Pond Lily, Missouri.....	8	Hamburg, Illinois.....	61	Saint Marys, Missouri.....	128
Ables Field, Illinois.....	10	Widow Shepherds, Missouri.....	62	Whelans, Illinois.....	129
Greenleafs, Illinois.....	11	Willards, Illinois.....	65	Bogys, Missouri.....	129
Brewers, Missouri.....	13	Moccasinville, Missouri.....	65	Quarry town, Missouri.....	131
Thompsons, Missouri.....	15	Vancils, Missouri.....	66	Stones, Illinois.....	134
Orient Field, Missouri.....	17	Neeleys landing, Missouri.....	70	Kaskaskia, Illinois.....	135
Saladin Field, Missouri.....	19	Crawfords, Missouri.....	75	Saint Genevieve, Missouri.....	140
Haughs landing, Missouri.....	19	Springs, or Bennetts, Illinois.....	75	Mudds point, Illinois.....	142
Dogtooth island, Illinois.....	19	Preston, or Union point, Illinois.....	76	Little Rock, Missouri.....	142
Brooks point (Simons), Illinois.....	20	Hines landing, Missouri.....	76	Sand depot, Missouri.....	146
Davis, Illinois.....	21	Birmingham, Missouri.....	77	Fort Chartres, Frank Brickleys, Illinois.....	150
Browns, or Berrys, Illinois.....	22	Sauls, Illinois.....	78	Salt point, or Clifton, Missouri.....	150
Prices landing, Missouri.....	24	Grand Tower, Illinois.....	80	Jim Snells, Missouri.....	152
Daniels landing, Missouri.....	25	Wittenburg, Missouri.....	82	Sycamore landing, Illinois.....	153
West Philadelphia, Missouri.....	27	Shipyard, Illinois.....	83	Cliff, or John Brickeys, Missouri.....	153
Commercial point, Illinois.....	27	Youngs, Missouri.....	85	Morrisons, Missouri.....	154
Athertons Goose Island landing, Illinois.....	30	Gills, Missouri.....	85	Salt lake, Illinois.....	154
Jones, or Davis Store, Illinois.....	31	Estells, Illinois.....	88	Walkers, Illinois.....	155
Horse Shoe, Athertons, Illinois.....	31	Burford, Missouri.....	92	Goodmans, Illinois.....	157
Burnham island, Jones, Illinois.....	34	'76 landing, Missouri.....	93	Rush Tower, or Perrys, Missouri.....	160
Santa Fe, Illinois.....	35	Wilkinsons island, Illinois.....	96	Forest Home, Illinois.....	164
Commerce, Missouri.....	35	Wilkinsons, Missouri.....	96	Lilleys, Missouri.....	165
Uncle Joes, Missouri.....	38	Baileys, Missouri.....	100	Selina, Missouri.....	165
Thebes, Illinois.....	40	Wilkinsons, Illinois.....	103	Hugs island, Missouri.....	168
Doughertys, Missouri.....	40	Prices, Illinois.....	104	Crystal city, Missouri.....	168
Grays point, Missouri.....	43	Ryans, Illinois.....	104	Platin Rock, Missouri.....	169
Jones, Missouri.....	46	McLeans, Illinois.....	106	Knowlens, Illinois.....	171
College farm, Missouri.....	47	Excelsior, or Jones, Missouri.....	106	Harrisonville, Illinois.....	172
Cape Girardeau, Missouri.....	50	Hamiltons, Illinois.....	107	Bushburg, Missouri.....	174
Wauho, Illinois.....	52	Rockwood, Illinois.....	110	Sulphur Springs, Missouri.....	176
Randals, Illinois.....	54	Nicks landing, Missouri.....	113	Kimmswick, Missouri.....	178
Hobbs, Missouri.....	55	Boise Brule, Missouri.....	114	Kirks landing, Illinois.....	180
Mintons point, Illinois.....	55	Allens, Missouri.....	114	Jim Smiths, or Hurricane point, Illinois.....	180
Devils island (McClures), Illinois.....	57	Waters, Missouri.....	115	Pull Tight, Illinois.....	184
Kinney point, Missouri.....	57	Mancoes, Illinois.....	115	Quarantine, Missouri.....	186
Taylors, Missouri.....	58	Darwins, Illinois.....	116	Jefferson barracks, Missouri.....	188
Davidsons, Missouri.....	59	Coles mill, Illinois.....	119	Saint Louis, Missouri.....	200
		Clareyville, Missouri.....	120		

MISSISSIPPI RIVER LANDINGS BETWEEN CAIRO AND NEW ORLEANS (DISTANCES FROM CAIRO).

	Miles.		Miles.		Miles.
Cairo, Illinois	0	Fletchers landing, Arkansas	158	Glendale, Mississippi	306
Norfolk landing, Missouri	7	Elmot landing, Arkansas	160	Williams landing, Arkansas	309
O'Briens, Missouri	14	Plum point, Tennessee	164	Thompsons landing, Mississippi	312
Columbus, Kentucky	21	Osceola, Arkansas	164	Delta, Mississippi	314
Belmont, Missouri	21	Drivers landing, Arkansas	166	Craigs landing, Arkansas	316
Farris landing, Missouri	29	Tanzals landing, Arkansas	167	Westover landing, Arkansas	318
Hickman, Kentucky	36	Fort Pillow, Tennessee	172	Friars point, Mississippi	319
Frenchs point, Kentucky	42	Hatchie landing, Tennessee	173	Old Town landing, Arkansas	324
Saint James bayou, Missouri	44	Fulton, Tennessee	175	Allisons landing, Arkansas	327
La Valles landing, Missouri	47	Falls landing, Arkansas	175	Hulberton, Mississippi	333
Newsoms landing, Missouri	49	Dixie landing, Island 34, Arkansas	178	Modoc landing, Arkansas	334
Lesters landing, Kentucky	53	Jones landing, Island 34, Arkansas	178	Hugheys landing, Arkansas	336
Kentucky and Tennessee state line	55	Mouth of Hatchie river, Tennessee	179	Jacksons Point landing, Mississippi	341
Port Polk, Tennessee	57	Randolph, Tennessee	182	Ludlows landing, Arkansas	346
Stewarts landing, Tennessee	59	Fort Wright, Tennessee	184	Saint Louis landing, Arkansas	349
Tolers landing, Tennessee	61	Richardsons landing, Tennessee	185	Sunflower landing, Mississippi	352
Kentucky and Tennessee state line	63	Prestons landing, Arkansas	186	Robinsonville landing, Mississippi	354
Morrisons landing, Missouri	69	Hampson & Fergusons landing, Arkansas	188	New Hope landing, Mississippi	355
Watsons point, Kentucky	69	Idaho landing, Arkansas	191	Malones landing, Mississippi	356
New Madrid, Missouri	70	Golden Lake landing, Arkansas	191	Lake Charles landing, Mississippi	357
Lower Madrid landing, Missouri	71	Tuckers landing, Arkansas	193	Andersous landing, Mississippi	359
Nolands landing, Kentucky	75	Pecan Point landing, Arkansas	196	Pushmataha landing, Mississippi	359
Toney landing, Missouri	75	Deans landing, Arkansas	197	Ludlows landing, Arkansas	359
Marrs landing, Tennessee	77	Andrews landing, Arkansas	198	Crows landing, Mississippi	365
Darnells landing, Tennessee	78	Thomas landing, Tennessee	201	Beiths landing, Arkansas	366
Point Pleasant, Missouri	79	Corona landing, Arkansas	203	Parkers landing, Mississippi	367
Williams landing, Missouri	80	Randolph point, Tennessee	210	Australia, Mississippi	369
Phillips landing, Missouri	81	Woodwards landing, Arkansas	212	Australia landing, Mississippi	370
Lazells landing, Missouri	82	Eldorado, Arkansas	212	Dyers landing, Mississippi	370
Ruddles landing, Missouri	84	Bradleys landing, Arkansas	214	Dennis landing, Mississippi	372
Tiptonville, Tennessee	85	Hollybush landing, Arkansas	219	Laconia, Arkansas	373
Shaws landing, Tennessee	85	Redmans landing, Arkansas	220	Lulu landing, Arkansas	376
Reelfoot landing, Tennessee	86	Mound city landing, Arkansas	226	Concordia, Mississippi	378
Rileys landing, Tennessee	87	Mouth of Loosahatchie river, Tennessee	229	Maysonia, Mississippi	378
Stewarts landing, Missouri	88	Hopfield, Arkansas	229	Hills landing, Arkansas	380
Batsells landing, Missouri	90	Mouth of Wolf river, Tennessee	229	Frawleys landing, Mississippi	382
Atkinsons landing, Missouri	91	Memphis, Tennessee	230	Henrico landing, Arkansas	383
Stewarts lower landing, Missouri	94	Forrest landing	233	Graddys landing, Arkansas	384
Bass landing, Tennessee	95	Lakes landing, Arkansas	236	McGehees landing, Mississippi	391
D. Phillips landing, Missouri	96	McConnells landing, Arkansas	238	Waxhaw landing, Mississippi	392
Reelfoot landing, Tennessee	98	Rowleys landing, Arkansas	238	Mouth of White river, Arkansas	393
Le Dukes landing, Tennessee	101	Jones landing, Arkansas	238	Terrene, Mississippi	394
Hathaways landing, Tennessee	102	Reeves landing, Arkansas	243	Cumbyville, Arkansas	394
Gayoso, Missouri	105	Harris landing, Arkansas	244	Malones landing, Arkansas	397
Ferris landing, Missouri	108	Horn Lake landing, Tennessee	244	Rosedale landing, Mississippi	398
Caruthersville, Missouri	110	Collins landing, Tennessee	245	Riverton landing, Mississippi	399
Linwood landing, Tennessee	115	Scanlans landing, Arkansas	247	Black Hawk landing, Arkansas	401
Booths Point landing, Tennessee	117	Fairview landing, Arkansas	251	Mouth of Arkansas river, Arkansas	401
Loves landing, Tennessee	120	Pinkney's landing, Arkansas	252	Glen Lou landing, Arkansas	401
Pates landing, Tennessee	121	Cat Island landing, Arkansas	252	Prentiss landing, Mississippi	403
Mitchells landing, Tennessee	122	Norfolk landing, Mississippi	254	Holly Ridge landing, Arkansas	411
Cottonwood Point landing, Missouri	123	Star landing, Mississippi	258	Caulks landing, Arkansas	413
Helms landing, Missouri	123	Hacklerodes landing, Arkansas	259	Niblets landing, Mississippi	414
Lintdale landing, Missouri	125	Bennetts landing, Mississippi	263	Bolivar landing, Mississippi	416
Midway landing, Missouri	126	Polks landing, Mississippi	264	Buck Ridge landing, Mississippi	418
Missouri and Arkansas state line	127	Commerce landing, Mississippi	269	Kentucky landing, Mississippi	418
Secoy landing, Arkansas	128	Peters landing, Arkansas	271	Home landing, Mississippi	419
Meadows landing, Arkansas	128	Campbells landing, Arkansas	272	Content landing, Mississippi	420
Hoffman landing, Arkansas	129	Ashley Point landing, Arkansas	274	Williams landing, Arkansas	420
Hickmans landing, Arkansas	131	Mhoons landing, Mississippi	275	Franklin landing, Mississippi	422
Wrights Point landing, Arkansas	134	Bordeaux Point landing, Arkansas	278	Catfish Point landing, Mississippi	423
Mouth of Obion river, Tennessee	135	Walnut Bend landing, Arkansas	282	Good Luck landing, Arkansas	423
Hales Point landing, Tennessee	135	Smiths landing, Arkansas	285	Cypress Creek landing, Arkansas	426
Nebraska landing, Tennessee	138	Frederick landing, Mississippi	287	Lucca landing, Arkansas	427
Buckners landing, Arkansas	140	Austin landing, Mississippi	288	Chicora landing, Arkansas	429
Snows landing, Arkansas	140	O. K. landing, Mississippi	289	Chicot, Arkansas	431
Barfield landing, Arkansas	141	Harberts landing, Mississippi	292	Eutaw landing, Mississippi	433
Wards landing, Arkansas	148	Sterling, Arkansas, mouth Saint Francis river	297	Jenkins landing, Mississippi	433
O'Donnells landing, Arkansas	149	Trotter landing, Mississippi	304	Stop landing, Mississippi	434
Ashport, Tennessee	153	Helena, Arkansas	306	Easton landing, Mississippi	434
Mud Point landing, Tennessee	154			Mound landing, Mississippi	435
				Glencoe landing, Mississippi	436

MISSISSIPPI RIVER LANDINGS BETWEEN CAIRO AND NEW ORLEANS (DISTANCES FROM CAIRO)—Continued.

	Miles.		Miles.		Miles.
Delolme landing, Mississippi	436	Sparta, or Duckport landing, Louisiana	589	Tarbert, Mississippi	757
Arkansas city, Arkansas	438	Nebraska landing, Louisiana	591	Car Point landing, Louisiana	760
Offutts landing, Mississippi	444	Youngs Point landing, Louisiana	593	Angola landing, Louisiana	762
Gaines landing, Arkansas	449	Mouth of Yazoo river, Mississippi	594	Mouth of Red river, Louisiana	762
Point Comfort landing, Arkansas	454	Butler landing, Mississippi	594	Red River landing, Louisiana	763
Woodstock landing, Mississippi	464	Kings Point landing, Mississippi	596	Smiths landing, Louisiana	765
Linwood landing, Arkansas	464	Vicksburg, Mississippi	599	Miles landing, Louisiana	765
Bellevue landing, Arkansas	465	Delta, Louisiana	597	Coal landing, Louisiana	770
Luna landing, Arkansas	467	Bedfords landing, Louisiana	606	Upper Tunica landing, Louisiana	770
Columbia landing, Arkansas	469	Warrenton, Mississippi	606	Lower Tunica landing, Louisiana	771
Chicot landing, Arkansas	473	Oak Bend landing, Mississippi	609	Greenwood landing, Louisiana	775
Barns landing, Mississippi	476	Diamond point, Mississippi	611	Sebastopol, Louisiana	780
Greenville, Mississippi	478	Moore's landing, Louisiana	614	Raccourci landing, Louisiana	782
Craigs landing, Arkansas	483	Kelloggs landing, Louisiana	616	New Texas landing, Louisiana	783
Jones landing, Arkansas	485	Upper New Town, Mississippi	618	Morganza landing, Louisiana	786
Vaocluse landing, Arkansas	486	Lower New Town, Louisiana	618	Point Coupee, Louisiana	793
Sunnyside landing, Arkansas	490	Point Pleasant landing, Louisiana	622	Bayou Sara, Louisiana	797
Refuse, Mississippi	491	Blands store, Louisiana	623	Waterloo, Louisiana	803
Lakeport landing, Arkansas	495	Buck Ridge landing, Louisiana	624	Hermitage landing, Louisiana	805
Island 86 landing, Arkansas	501	Brooks landing, Mississippi	626	Port Hickey landing, Louisiana	808
Longwood landing, Mississippi	501	Wilson's Point landing, Louisiana	630	Kelson landing, Louisiana	811
Lake Washington landing, Mississippi	504	Ship Bayou landing, Louisiana	631	Highland landing, Louisiana	813
Grand Lake landing, Arkansas	510	Hard Times landing, Louisiana	633	Lower Springfield landing, Louisiana	816
Leota landing, Mississippi	511	Grand Gulf, Mississippi	636	Grossmans landing, Louisiana	820
Cracraft landing, Arkansas	513	Whitehall landing, Mississippi	637	Barroza landing, Louisiana	821
Sterling landing, Arkansas	515	Hardscrabble, Louisiana	640	Lobdells landing, Louisiana	823
Carolina landing, Mississippi	516	Bruensburg landing, Mississippi	643	Quornor landing, Louisiana	824
Ashton landing, Arkansas	520	Bondurant, Louisiana	643	Point Lake landing, Louisiana	826
Pilchers Point landing, Louisiana	523	Saint Joseph, Louisiana	648	Port Allen, Louisiana	830
Pitmans landing, Louisiana	525	Rodney Ferry landing, Louisiana	651	Baton Rouge, Louisiana	831
Bunchs landing, Louisiana	528	Rodney, Mississippi	652	Cinclare landing, Louisiana	835
Duncansby landing, Mississippi	529	Gilliams landing, Mississippi	654	Missouri landing, Louisiana	837
Skipworth landing, Mississippi	530	Beelers landing, Louisiana	655	Manchar landing, Louisiana	843
Wilsons Point landing, Louisiana	531	Kemps landing, Louisiana	659	Brooksville landing, Louisiana	847
Wilderness landing, Mississippi	531	Waterproof, Louisiana	663	Plaquemine landing, Louisiana	851
Cottonwood landing, Louisiana	534	Durango landing, Louisiana	668	Forlorn Hope landing, Louisiana	856
Homochitta landing, Mississippi	535	Cypress Grove landing, Mississippi	669	Arcadia landing, Louisiana	857
Holly Ridge landing, Mississippi	536	Coles Creek landing, Mississippi	672	Browns landing, Louisiana	859
Vista landing, Louisiana	536	Kings woodyard, Mississippi	674	Dunboine landing, Louisiana	862
Longwood landing, Louisiana	537	Rosedale landing, Louisiana	674	Ophelia landing, Louisiana	862
Oakley landing, Mississippi	537	Habbards landing, Mississippi	675	Bayou Goula landing, Louisiana	864
Reserve landing, Mississippi	537	Mercer landing, Mississippi	677	Belle Grove landing, Louisiana	867
Arlington landing, Louisiana	541	L'Argent, Louisiana	679	Cannon Store landing, Louisiana	868
Ben Lomond landing, Mississippi	541	Mononar landing, Louisiana	680	Hard Times landing, Louisiana	869
Lake Providence, Louisiana	542	Hole in Wall landing, Louisiana	680	Southwood landing, Louisiana	872
Shipland landing, Mississippi	544	Covington landing, Louisiana	680	Woodstock landing, Louisiana	875
Halls landing, Mississippi	552	Gibbons landing, Louisiana	683	Linwood landing, Louisiana	875
Tallula landing, Mississippi	552	Good Hope landing, Louisiana	691	Ashland landing, Louisiana	876
Bass landing, Louisiana	552	Stacy plantation, Louisiana	698	Ascension landing, Louisiana	879
Hays landing, Mississippi	553	Natchez, Mississippi	698	Evan Hall landing, Louisiana	880
Shiloh landing, Mississippi	554	Vidalia, Louisiana	698	Ferry landing, Louisiana	883
Christmas landing, Mississippi	555	Arnolla landing, Louisiana	700	Donaldsonville, Louisiana	883
Cottonwood landing, Mississippi	556	Whitehall landing, Louisiana	701	Bateau, or Lareular landing, Louisiana	885
Arcadia landing, Mississippi	557	Boles Point landing, Louisiana	705	Whitehall landing, Louisiana	891
Wilton landing (upper), Louisiana	559	Morville landing, Louisiana	708	College point, Louisiana	901
Wilton landing (lower), Louisiana	560	Hutchins landing, Mississippi	713	Mount Airy plantation, Louisiana	913
Alsatia landing, Louisiana	561	Avalanche landing, Mississippi	716	Terre Haute plantation, Louisiana	918
Melville landing, Louisiana	562	Fairview landing, Louisiana	725	Bonnet Carre, Louisiana	924
Edgewood landing, Louisiana	563	Jacksons point, Mississippi	735	Hermitage plantation, Louisiana	930
Raleigh landing, Louisiana	564	Ashland landing, Louisiana	735	Prospect plantation, Louisiana	933
Tennessee landing, Mississippi	564	Bongeres landing, Louisiana	735	Hahnville, Louisiana	933
Pecan Grove landing, Louisiana	566	Union Point landing, Louisiana	740	Speranza plantation, Louisiana	935
Chotard landing, Mississippi	570	Kienstia landing, Mississippi	740	Destrahan plantation, Louisiana	937
Brunswick landing, Mississippi	573	Black Hawk landing, Louisiana	745	Lone Star plantation, Louisiana	938
Henderson landing, Louisiana	573	Black Hawk Point landing, Louisiana	748	Kennerville, Louisiana	945
Villa Vista landing, Louisiana	574	Stamps landing, Mississippi	748	Twelve Mile point, Louisiana	949
Omega landing, Louisiana	578	Bartlett plantation, Mississippi	750	Jefferson, Louisiana	949
Rose Hill landing, Louisiana	579	Knoxs landing, Louisiana	751	Nine Mile point, Louisiana	953
Millikens Bend landing, Louisiana	581	Fort Adams landing, Mississippi	753	Carrollton, Louisiana	955
Cabin Teele landing, Louisiana	584	Point Breeze, Louisiana	756	Gretna, Louisiana	960
Forest Home landing, Mississippi	584	Langside, Mississippi		New Orleans, Louisiana	961
Halpino landing, Mississippi	585				

OHIO RIVER LANDINGS BETWEEN PITTSBURG AND CAIRO (DISTANCES FROM PITTSBURG).

	Miles.		Miles.		Miles.
Pittsburg, Pennsylvania.....	0	Newberry bar, Ohio.....	193	Palestine, Ohio.....	450
Saw Mill run, Pennsylvania.....	2	Big Hockhocking, Ohio.....	198	Buzzards roost, Ohio.....	454
Corks run, Pennsylvania.....	3	Bellville island, Ohio.....	202	Little Miami river, Ohio.....	460
Charlers creek, Pennsylvania.....	3	Murraysville, West Virginia.....	207	Jamestown, Kentucky.....	464
Jacks run, Pennsylvania.....	5	Portland, Ohio.....	214	Cincinnati, Ohio.....	467
Horsetail ripple, Pennsylvania.....	6	Ravenswood, West Virginia.....	219	Sedamsville, Ohio.....	470
Lowries ripple, Pennsylvania.....	7	Goose island, Ohio.....	228	McCulloms bar, Ohio.....	472
Duffs bar, Pennsylvania.....	8	Letart falls, Ohio.....	234	Andersons ferry, Ohio.....	474
Merrimans ripple, Pennsylvania.....	10	Grahams station, West Virginia.....	239	Rapid run, Ohio.....	477
Whites ripple, Pennsylvania.....	11	Hartford city, West Virginia.....	244	Taylorsville, Kentucky.....	478
Deadmans island, Pennsylvania.....	14	Pomeroy, Ohio.....	249	Muddy creek, Ohio.....	480
Flathertys run, Pennsylvania.....	15	Eight Mile island, Ohio.....	255	Chamberlains, Kentucky.....	482
Big Sewickley creek, Pennsylvania.....	16	Campaign creek, Ohio.....	260	Indian creek, Ohio.....	482
Little Sewickley creek, Pennsylvania.....	17	Big Kanawha river, West Virginia.....	264	Big Miami, Ohio and Indiana boundary.....	487
Logstown bar, Pennsylvania.....	19	Gallipolis, Ohio.....	267	Lawrenceburg, Indiana.....	489
Baden, Pennsylvania.....	21	Carriion ripple, Ohio.....	271	Petersburg landing, Kentucky.....	491
Freedom, Pennsylvania.....	24	Raccoon island, Ohio.....	273	Aurora, Indiana.....	493
Lacocks bar, Pennsylvania.....	25	Chambersburg, Ohio.....	278	Loughreys creek, Indiana.....	495
Big Beaver river, Pennsylvania.....	25	Bladensburg, Ohio.....	279	Kirbys rock, Indiana.....	496
Vanport, Pennsylvania.....	28	Eighteen Mile creek, Ohio.....	283	Loughreys island, Indiana.....	498
Raccoon bar, Pennsylvania.....	29	Little Guyandotte river, West Virginia.....	285	Rising Sun, Indiana.....	502
Raccoon creek, Pennsylvania.....	30	Green Bottom ripple, Ohio.....	290	Arnolds creek, Indiana.....	505
Montgomery island, Pennsylvania.....	32	Millersport and Federal creek, Ohio.....	293	Gunpowder creek, Kentucky.....	510
Safe Harbor, Pennsylvania.....	32	Haskellville, Ohio.....	295	Big Boone creek, Kentucky.....	513
Shippenport, Pennsylvania.....	35	Dogham bar, Ohio.....	299	Goose creek, Indiana.....	514
Potts run, Pennsylvania.....	37	Big Guyandotte river, West Virginia.....	303	Patriot, Indiana.....	515
Little Beaver river, Pennsylvania.....	40	Symms creek, Ohio.....	306	Sugar creek, Kentucky.....	519
Boundary line, Pennsylvania and Ohio.....	41	Buffalo creek bar, Ohio.....	308	Bryants creek, Indiana.....	523
Liverpool, Ohio.....	44	Burlington, Ohio.....	311	Warsaw, Kentucky.....	524
Wellsville, Ohio.....	48	Ceredo, West Virginia.....	312	Florence, Indiana.....	525
Yellow creek, Ohio.....	50	Catlettsburg, Kentucky.....	315	Craigs creek, Indiana.....	526
Tumblesons run, West Virginia.....	53	Sheridan coal works, Ohio.....	318	Storns creek, Indiana.....	527
New Cumberland, West Virginia.....	56	Ashland, Kentucky.....	320	Loglick creek, Indiana.....	529
Kings creek, Ohio.....	60	Ironton, Ohio.....	325	Vevay island, Indiana.....	532
Cables eddy, Ohio.....	64	Hanging Rock, Ohio.....	328	Vevay, Indiana, and Ghent, Kentucky.....	533
Steubenville, Ohio.....	68	Union landing, Ohio.....	330	Indian creek, Kentucky.....	536
Wellsburg, West Virginia.....	74	Greenupsburg, Kentucky.....	334	Craigs bar, Indiana.....	537
Beech Bottom bar, Ohio.....	78	Burks point, Ohio.....	341	Carrolton, Kentucky.....	541
Warrenton, Ohio.....	81	Pine creek, Ohio.....	345	Notelick creek, Kentucky.....	544
Pike island, Ohio.....	83	Sciotoville, Ohio.....	347	Captain J. Armstrongs, Indiana.....	544
Burlington, Ohio.....	86	Tiger creek, Kentucky.....	351	Locust creek, Kentucky.....	545
Martinsville, Ohio.....	89	Portsmouth, Ohio.....	354	Indian, Indiana.....	546
Wheeling (creek), West Virginia.....	90	Turkey creek, Ohio.....	359	Eagle Hollow, Indiana.....	551
McMahons Creek bar, Ohio.....	94	Quincy, Kentucky.....	364	Lonesome Hollow, Indiana.....	551
Kates rock, West Virginia.....	97	Rock Port, Kentucky.....	368	Madison, Indiana.....	553
Middle of Little Grave Creek bar, Ohio.....	100	Buena Vista, Ohio.....	371	Clifty creek, Indiana.....	556
Moundsville, West Virginia.....	101	Rockville, Ohio.....	372	Hanover landing, Indiana.....	558
Captina creek, Ohio.....	109	Vanceburg, Kentucky.....	375	Reeds landing, Indiana.....	562
Fish creek, West Virginia.....	113	Rome, Ohio.....	381	New London, Indiana.....	563
Sunfish creek, Ohio.....	117	Brush creek, Ohio.....	385	Big Solady creek, Indiana.....	565
Proctors run, West Virginia.....	121	Concord, Kentucky.....	387	Corn creek, Kentucky.....	567
Fishing creek, West Virginia.....	127	Wrightsville, Ohio.....	389	Bethlehem, Indiana.....	570
Sardis, Ohio.....	130	Manchester, Ohio.....	394	Westport, Kentucky.....	576
Whittons house, Ohio.....	134	Cabin creek, Kentucky.....	400	Eighteen Mile island, Indiana.....	578
Sisterville, West Virginia.....	136	Brooks bar, Ohio.....	402	Herculeanum, Kentucky.....	581
Matamoras, Ohio.....	141	Maysville, Kentucky.....	406	Fourteen Mile creek, Indiana.....	586
Petticoat bar, Ohio.....	147	Charleston bar, Ohio.....	412	Charleston landing, Indiana.....	587
Reas run, West Virginia.....	151	Ripley, Ohio.....	414	Twelve Mile island, Indiana.....	589
Saint Marys, West Virginia.....	155	Levana, or Dover, Ohio.....	416	Utica, Indiana.....	592
Newport, Ohio.....	156	Straight creek, Ohio.....	418	Six Mile island, Indiana.....	593
Cow creek, West Virginia.....	161	Higginsport, Ohio.....	422	Louisville, Kentucky.....	596
Carpenters bar, Ohio.....	166	Augusta, Kentucky.....	424	Jeffersonville, Indiana.....	596
Marietta, Ohio.....	171	Utopia, Ohio.....	427	Silver creek, Indiana.....	601
Briscoe run, West Virginia.....	177	Ball creek, Ohio.....	428	New Albany, Indiana.....	603
Cole island, Ohio.....	181	Chilo, Ohio.....	431	Middle creek, Indiana.....	608
Kanawha river, Parkersburg, West Vir- ginia.....	184	Neville, Ohio.....	435	Hughes bar, Indiana.....	609
Blennerhassets island, foot, West Vir- ginia.....	189	Fosters landing, Kentucky.....	435	Knob creek, Indiana.....	612
Hockingport, Ohio.....	191	Moscow, Ohio.....	439	Christopher crossing, Kentucky.....	617
		Point Pleasant, Ohio.....	442	Salt river, Kentucky.....	624
		New Richmond, Ohio.....	446	New Boston, Kentucky.....	628

OHIO RIVER LANDINGS BETWEEN PITTSBURG AND CAIRO (DISTANCES FROM PITTSBURG)—Continued.

	Miles.		Miles.		Miles.
Otter creek, Kentucky	631	Tell city, Indiana	720	Raleigh, Kentucky	843
Tobacco landing, Kentucky	635	Troy, Indiana	724	Shawneetown, Illinois	848
Brandenburg, Kentucky	640	Lewisport, Kentucky	731	Coal banks, Illinois	850
Maucport, Indiana	643	Grandview, Indiana	736	Saline river, Illinois	857
Amsterdam, Indiana	650	Honey creek, Indiana	739	Shotwells coal bank, Illinois	859
Head of Upper Blue River island, Indiana	654	Rockport, Indiana	741	Caseyville, Kentucky	861
Leavenworth, Indiana	658	Upper Yellow Bank island, head, Indiana	745	Treadwater river, Kentucky	862
Fredonia, Indiana	661	Owensboro, Kentucky	749	Weston, Kentucky	865
Schooner point, Indiana	664	Bonharbor, Kentucky	752	Fords ferry, Kentucky	866
Hawkins landing, Kentucky	668	Enterprise, Indiana	756	Cave in Rock, Illinois	869
Peckenpaws landing, Kentucky	669	Point Isabel, Indiana	758	Head Big Hurricane island, Kentucky	873
Wolf creek, Kentucky	671	French island, Kentucky	760	Elizabethtown, Illinois	877
Little Blue river, Indiana	673	Pigeon creek, Indiana	766	Roseclair, Illinois	880
Alton, Indiana	673	Cypress creek, Indiana	768	Carrsville, Kentucky	882
Reno, Indiana	677	Newburg, Indiana	770	Goleonda, Illinois	890
Hatfields house, Kentucky	679	Green river, Kentucky	775	Prior island, Kentucky	893
Concordia, Kentucky	681	Evansville, Indiana	783	Head Sisters island, Kentucky	896
Davis landing, Indiana	682	Henderson, Kentucky	795	Bay city, Illinois	899
Oil creek, Indiana	686	Henderson, Indiana	796	Head Stewarts island, Illinois	901
Derby, Indiana	687	West Franklin, Indiana	808	Head Dry island, Illinois	906
Yellow Bank creek, Kentucky	690	Diamond island, foot, Indiana	812	Smithland, Kentucky	908
Shenants Reach, foot, Kentucky	692	Mount Vernon, Indiana	819	Pull Tight, or West Liberty, Kentucky	910
Steavens port, Kentucky	695	Slim island, head, Indiana	822	Paducah, Kentucky	920
Bear creek, Kentucky	697	Slim island, foot, Indiana	826	Brooklyn, Illinois	923
Holts bar, Kentucky	698	Louisiana rocks, Kentucky	831	Metropolis, Illinois	929
Gregorys, Kentucky	703	Uniontown, Kentucky	833	Hillermans, Illinois	939
Cloverport, Kentucky	705	Lower Highland rocks, Kentucky	834	Caledonia, Illinois	951
Faucetts creek, Indiana	706	Head Wabash island, Indiana	836	Mound city, Illinois	959
Nillston creek, Indiana	711	Wabash river, Illinois and Indiana boundary	838	Cairo, mouth of Ohio river, Illinois ..	967
Rock island, Kentucky	713	Fort Wabash island, Indiana	841		
Hawsville, Kentucky	717				

MISSOURI RIVER LANDINGS BETWEEN SAINT LOUIS AND FORT BENTON (DISTANCES FROM SAINT LOUIS).

Saint Louis, Missouri	0	Grand River agency, South Dakota ..	1,479	Round Butte, Montana	2,304
Mouth of Missouri, Missouri	20	Standing Rock agency, South Dakota ..	1,535	Trover Point, Montana	2,344
Jefferson city, Missouri	164	Fort Yates, North Dakota	1,535	Mussellshell river, Montana	2,387
Glasgow, Missouri	212	Fort Rice, North Dakota	1,569	Fort Hawley, Montana	2,424
Lexington, Missouri	337	Fort Lincoln, North Dakota	1,609	Carroll, Montana	2,446
Kansas city, Missouri	405	Bismarck, North Dakota	1,614	Little Rocky, Montana	2,461
Leavenworth, Kansas	438	Mandan, North Dakota	1,617	Harrietts island, Montana	2,473
Saint Joseph, Missouri	501	Fort Stevenson, North Dakota	1,724	Two Calf island, Montana	2,488
Omaha, Nebraska	686	Port Berthold, North Dakota	1,749	Cow island, Montana	2,508
Sioux city, Iowa	861	White Earth river, North Dakota	1,869	Buds rapids, Montana	2,523
Vermilion, Kansas	953	Fort Buford, North Dakota	1,994	Dauphins rapids, Montana	2,538
Yankton, South Dakota	1,006	Mouth of Yellowstone, North Dakota ..	1,996	Fort Claggett, Montana	2,561
Fort Randall, South Dakota	1,102	Mouth of Little Muddy, Montana	2,016	Drowned Mans rapids, Montana	2,563
Brule city, South Dakota	1,192	Mouth of Big Muddy, Montana	2,046	Arrowhead, Montana	2,577
Brule agency, South Dakota	1,223	Mouth of Poplar creek, Montana	2,096	Steamboat rock, Montana	2,581
Fort Hale, South Dakota	1,223	Spread Eagle, Montana	2,121	Hole in the Wall, Montana	2,587
Fort Thompson, South Dakota	1,230	Wolf Creek agency, Montana	2,147	Citadel rock, Montana	2,590
Head of Big Bend, South Dakota	1,270	Porcupine creek, Montana	2,177	Eagle creek, Montana	2,598
Old Fort Pierre, South Dakota	1,330	Milk river, Montana	2,202	Coal banks, Montana	2,613
Black Hills landing, South Dakota ..	1,330	Fort Copelin, Montana	2,212	Fort Assinaboine landing, Montana ..	2,613
Fort Sully, South Dakota	1,359	Fort Peck, Montana	2,227	Mouth of Marias river, Montana	2,637
Cheyenne agency, South Dakota	1,371	Bouches Grave, Montana	2,267	Fort Benton, Montana	2,663
Fort Bennett, South Dakota	1,371				

YELLOWSTONE RIVER LANDINGS BETWEEN FORT BUFORD AND LITTLE BIG HORN (DISTANCES FROM FORT BUFORD).

Fort Buford, North Dakota	0	Tongue river, Montana	237	Bighorn, Montana	348
Glendive, Montana	148	Fort Keogh, Montana	237	Little Bighorn, Montana	398
Powder river, Montana	200	Rosebud, Montana	274		

STATISTICS OF TRANSPORTATION ON THE RIVERS OF THE MISSISSIPPI VALLEY.

TABLE 1.—EQUIPMENT.

NUMBER, TONNAGE, AND VALUE OF ALL STEAMERS AND UNRIGGED CRAFT (OVER 5 TONS) OWNED ON THE RIVERS OF THE MISSISSIPPI VALLEY IN 1889.

RIVERS.	TOTAL.			STEAMERS.			UNRIGGED.		
	Number.	Tonnage.	Value.	Number.	Tonnage.	Value.	Number.	Tonnage.	Value.
Total for Mississippi valley....	7,453	3,393,379.89	\$15,335,005	1,114	210,771.89	\$10,539,251	6,339	3,182,608.00	\$4,795,754
Upper Mississippi	473	190,663.21	1,699,387	188	24,978.21	1,485,369	285	165,685.00	214,018
Saint Croix	26	11,258.35	110,000	15	1,258.35	99,000	11	10,000.00	11,000
Chippewa	1	108.00	7,000	1	108.00	7,000			
Illinois	9	1,860.25	80,200	9	1,860.25	80,200			
Missouri, Osage, and Gasconade ...	104	9,657.84	240,405	52	4,759.84	209,700	52	4,898.00	30,705
Total for Upper Mississippi system.	613	213,547.65	2,136,992	265	32,964.65	1,881,269	348	180,583.00	255,723
Ohio	4,868	2,440,881.62	6,957,513	380	85,035.62	4,099,177	4,488	2,355,846.00	2,858,336
Allegheny	32	3,053.84	63,400	6	715.84	53,000	26	2,340.00	10,400
Monongahela	158	22,887.15	449,700	48	6,234.15	419,600	110	16,653.00	30,100
Muskingum	79	8,370.79	53,515	7	567.79	25,050	72	7,803.00	28,465
Little Kanawha	53	4,972.18	30,000	5	228.18	18,000	48	4,744.00	12,000
Great Kanawha	893	412,366.13	645,038	21	2,386.13	123,333	872	409,980.00	521,705
Big Sandy	17	3,937.67	44,000	8	787.67	40,000	9	3,150.00	4,000
Kentucky	8	539.31	22,100	5	374.31	21,000	3	165.00	1,100
Green	5	316.68	13,500	5	316.68	13,500			
Wabash	3	297.00	10,000	3	297.00	10,000			
Cumberland	37	4,805.57	113,600	17	2,935.57	109,300	20	1,870.00	4,300
Tennessee	92	18,038.89	293,975	32	7,316.89	260,750	60	10,722.00	33,225
Total for Ohio system	6,245	2,920,468.83	8,686,341	537	107,195.83	5,192,710	5,708	2,813,273.00	3,503,631
Lower Mississippi	515	237,986.07	4,153,623	265	62,476.07	3,152,372	250	175,510.00	1,001,250
White	6	1,269.71	45,100	5	1,229.71	45,000	1	40.00	100
Arkansas	22	2,408.73	67,600	15	2,098.73	66,200	7	310.00	1,400
Yazoo	20	3,079.68	79,450	11	1,409.68	62,000	9	1,670.00	17,450
Washita	3	994.52	45,000	3	994.52	45,000			
Red	14	2,218.88	85,700	9	1,968.88	80,700	5	250.00	5,000
Total for Lower Mississippi system.	580	247,957.59	4,476,472	308	70,177.59	3,451,272	272	177,780.00	1,025,200
Red River of the North	15	11,405.82	25,200	4	433.82	14,000	11	10,972.00	11,200

STATISTICS OF TRANSPORTATION.

TABLE 2.—EQUIPMENT BY CLASSES.

NUMBER, TONNAGE, AND VALUE OF ALL VESSELS (OVER 5 TONS), BY CLASSES, AND OWNED ON THE RIVERS OF THE MISSISSIPPI VALLEY IN 1889.

RIVERS.	Classes.	Number of vessels in each class.	Tonnage.	Value.
Total for Mississippi valley.....		7,453	3,393,379.89	\$15,335,005
UPPER MISSISSIPPI SYSTEM.				
Upper Mississippi.....	Passenger and freight.....	23	5,732.91	281,700
	Towing.....	77	9,736.51	621,800
	Ferry.....	24	2,144.39	170,200
	Harbor.....	25	994.26	62,250
	Miscellaneous.....	10	1,999.75	139,800
	No traffic report.....	29	4,370.39	209,619
	Unrigged.....	285	165,685.00	214,018
Total.....		473	190,663.21	1,699,387
Saint Croix.....	Towing.....	10	1,129.82	88,500
	Ferry.....	1	26.98	3,000
	Harbor.....	4	101.55	7,500
	Unrigged.....	11	10,000.00	11,000
Total.....		26	11,258.35	110,000
Chippewa.....	Towing.....	1	108.00	7,000
Illinois.....	Passenger and freight.....	7	1,811.80	79,200
	Ferry.....	2	48.45	1,000
Total.....		9	1,860.25	80,200
Missouri, Osage, and Gasconade.....	Passenger and freight.....	15	2,458.85	76,300
	Towing and harbor.....	10	573.37	41,700
	Ferry.....	24	1,685.49	94,100
	Unrigged.....	52	4,898.00	30,705
	No traffic report.....	3	42.13	3,600
Total.....		104	9,657.84	240,405
Total for Upper Mississippi system.....		613	213,547.65	2,136,992
OHIO SYSTEM.				
Ohio.....	Passenger and freight.....	85	32,688.82	1,209,825
	Towing.....	114	26,708.08	1,680,600
	Ferry.....	54	10,918.00	350,250
	Harbor.....	48	4,275.11	301,000
	Miscellaneous.....	25	2,978.83	169,200
	Unrigged.....	4,488	2,355,846.00	2,858,336
	No traffic report.....	54	7,466.78	388,302
Total.....		4,868	2,440,881.62	6,957,513
Allegheny.....	Passenger and freight.....	6	715.84	53,000
	Unrigged.....	26	2,340.00	10,400
Total.....		32	3,055.84	63,400
Monongahela.....	Passenger and freight.....	8	1,471.48	75,700
	Towing.....	25	3,441.97	246,700
	Ferry.....	3	263.39	15,000
	Miscellaneous.....	12	1,057.31	82,200
	Unrigged.....	110	16,653.00	30,100
Total.....		158	22,887.15	449,700
Muskingum.....	Passenger and freight.....	4	333.35	16,750
	Towing.....	2	219.35	7,000
	Harbor.....	1	15.09	1,300
	Unrigged.....	72	7,803.00	28,465
Total.....		79	8,370.79	53,515
Little Kanawha.....	Passenger and freight.....	2	143.56	10,000
	Towing.....	1	34.93	4,000
	Harbor.....	1	25.64	3,000
	Miscellaneous.....	1	24.05	1,000
	Unrigged.....	48	4,744.00	12,000
Total.....		53	4,972.18	30,000

RIVERS OF THE MISSISSIPPI VALLEY.

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TABLE 2.—EQUIPMENT BY CLASSES—Continued.

NUMBER, TONNAGE, AND VALUE OF ALL VESSELS (OVER 5 TONS), BY CLASSES, AND OWNED ON THE RIVERS OF THE MISSISSIPPI VALLEY IN 1889—Continued.

RIVERS.	Classes.	Number of vessels in each class.	Tonnage.	Value.
OHIO SYSTEM—Continued.				
Ohio—Continued.				
Great Kanawha.....	Passenger and freight.....	5	427.55	\$23,500
	Towing.....	4	692.66	39,333
	Harbor.....	6	822.49	41,000
	Ferry.....	2	102.47	8,000
	Miscellaneous.....	2	58.78	3,500
	Unrigged.....	872	409,980.00	521,705
	No traffic report.....	2	282.18	8,000
Total.....		893	412,366.13	645,038
Big Sandy.....	Passenger and freight.....	5	443.65	16,000
	Harbor.....	3	344.02	24,000
	Unrigged.....	9	3,150.00	4,000
Total.....		17	3,937.67	44,000
Kentucky.....	Passenger and freight.....	3	246.52	15,000
	Towing.....	1	77.88	4,000
	Unrigged.....	3	165.00	1,100
	No traffic report.....	1	49.91	2,000
Total.....		8	539.31	22,100
Green.....	Passenger and freight.....	5	316.68	13,500
Wabash.....	Passenger and freight.....	2	243.33	7,500
	No traffic report.....	1	53.67	2,500
Total.....		3	297.00	10,000
Cumberland.....	Passenger and freight.....	13	2,631.48	100,800
	Towing.....	4	304.09	8,500
	Unrigged.....	20	1,870.00	4,300
Total.....		37	4,805.57	113,600
Tennessee.....	Passenger and freight.....	23	5,851.24	210,500
	Towing.....	6	1,183.71	46,250
	Ferry.....	2	259.67	3,000
	Unrigged.....	60	10,722.00	33,225
	No traffic report.....	1	22.27	1,000
Total.....		92	18,038.89	293,975
Total for Ohio system.....		6,245	2,920,468.83	8,696,341
LOWER MISSISSIPPI SYSTEM.				
Lower Mississippi.....	Passenger and freight.....	74	31,898.33	1,186,300
	Towing.....	35	9,665.18	627,600
	Harbor.....	53	12,403.80	588,300
	Ferry.....	45	2,831.74	392,200
	Miscellaneous.....	11	599.93	70,350
	Unrigged.....	250	175,510.00	1,001,250
	No traffic report.....	47	5,077.09	287,622
Total.....		515	237,986.07	4,153,622
White.....	Passenger and freight.....	5	1,229.71	45,000
	Unrigged.....	1	40.00	100
Total.....		6	1,269.71	45,100
Arkansas.....	Passenger and freight.....	9	1,785.91	46,700
	Ferry.....	6	312.82	19,500
	Unrigged.....	7	310.00	1,400
Total.....		22	2,408.73	67,600
Yazoo.....	Passenger and freight.....	11	1,409.68	62,000
	Unrigged.....	9	1,670.00	17,450
Total.....		20	3,079.68	79,450

STATISTICS OF TRANSPORTATION.

TABLE 2.—EQUIPMENT BY CLASSES—Continued.

NUMBER, TONNAGE, AND VALUE OF ALL VESSELS (OVER 5 TONS), BY CLASSES, AND OWNED ON THE RIVERS OF THE MISSISSIPPI VALLEY IN 1889—Continued.

RIVERS.	Classes.	Number of vessels in each class.	Tonnage.	Value.
LOWER MISSISSIPPI SYSTEM—Continued.				
Lower Mississippi—Continued.				
Washita	Passenger and freight	3	994.52	\$45,000
Red	Passenger and freight	9	1,968.88	80,700
	Unrigged	5	250.00	5,000
Total		14	2,218.88	85,700
Total for Lower Mississippi system		580	247,957.59	4,476,472
RED RIVER OF THE NORTH.				
Red River of the North	Freight	3	411.17	12,500
	Unrigged	11	10,972.00	11,200
	No traffic report	1	22.05	1,500
Total		15	11,405.82	25,200

RIVERS OF THE MISSISSIPPI VALLEY.

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TABLE 3.—EQUIPMENT BY TONNAGE GROUPS.

NUMBER AND TONNAGE OF ALL STEAMERS (OVER 5 TONS) DOCUMENTED IN CUSTOMS DISTRICTS OF THE MISSISSIPPI VALLEY IN 1889,
GIVEN BY TONNAGE GROUPS FOR EACH DISTRICT. (a)

CUSTOMS DISTRICTS.	TOTAL.		5 TO 50 TONS.		50 TO 100 TONS.		100 TO 200 TONS.	
	Number.	Tons.	Number.	Tons.	Number.	Tons.	Number.	Tons.
Total	1,114	209,826.07	270	7,933.26	261	19,344.92	295	42,601.42
New Orleans, Louisiana	126	19,248.58	35	1,199.49	37	2,667.20	27	3,822.59
Natchez, Mississippi	1	592.35	1	44.49	1	72.71	1	186.03
Vicksburg, Mississippi	30	2,875.99	10	257.90	11	815.67	5	634.36
Memphis, Tennessee	71	12,113.76	24	645.00	16	1,144.57	12	1,808.04
Chattanooga, Tennessee	22	3,966.09	5	180.21	1	63.01	8	1,224.13
Paducah, Kentucky	53	8,781.24	17	573.29	9	643.73	11	1,518.43
Louisville, Kentucky	52	11,937.92	9	286.67	13	935.54	15	2,266.05
Saint Louis, Missouri	115	42,827.04	23	646.72	19	1,525.42	12	1,695.14
Kansas city, Missouri	16	1,781.35	4	110.01	7	547.58	4	613.33
Saint Joseph, Missouri	6	340.53	3	84.56	2	153.53	1	102.44
Omaha, Nebraska	13	1,329.55	4	70.51	6	370.62		
Burlington, Iowa	43	5,059.39	10	366.43	11	786.81	18	2,881.38
Dubuque, Iowa	28	6,355.26	6	129.83	6	448.61	7	1,091.18
Minnesota (b)	46	5,213.56	16	409.66	6	447.47	18	2,603.01
Lacrosse, Wisconsin	47	3,884.03	16	441.95	15	1,187.58	16	2,254.50
Galena, Illinois	27	3,129.60	4	130.06	5	366.20	18	2,633.34
Evansville, Indiana	54	6,950.76	23	565.31	12	904.84	10	1,392.77
Cincinnati, Ohio	115	31,406.87	21	601.05	24	1,713.40	30	4,412.29
Wheeling, West Virginia	94	9,768.97	22	703.87	36	2,697.50	27	3,884.94
Pittsburg, Pennsylvania	152	32,263.23	17	486.25	24	1,852.93	55	7,577.47

CUSTOMS DISTRICTS.	200 TO 300 TONS.		300 TO 400 TONS.		400 TO 500 TONS.		500 TO 1,000 TONS.		1,000 TO 2,500 TONS.	
	Number.	Tons.	Number.	Tons.	Number.	Tons.	Number.	Tons.	Number.	Tons.
Total	92	22,746.92	74	25,481.02	28	12,528.88	71	49,025.68	23	30,163.97
New Orleans, Louisiana	12	2,918.50	7	2,485.90	2	966.07	4	3,129.85	2	2,058.98
Natchez, Mississippi	1	289.12								
Vicksburg, Mississippi	2	473.91	2	694.15						
Memphis, Tennessee	5	1,190.59	5	1,715.58	2	934.93	6	3,615.34	1	1,459.71
Chattanooga, Tennessee	4	912.32	3	1,021.08			1	565.34		
Paducah, Kentucky	5	1,203.66	7	2,319.73	1	467.17	3	2,055.23		
Louisville, Kentucky	2	491.78	7	2,417.12	1	438.17	4	3,054.25	1	2,048.34
Saint Louis, Missouri	8	2,002.36	12	4,376.21	12	5,287.10	18	11,879.81	11	15,414.28
Kansas city, Missouri							1	510.43		
Saint Joseph, Missouri										
Omaha, Nebraska	2	536.11	1	352.31						
Burlington, Iowa	3	712.02	1	312.75						
Dubuque, Iowa	3	723.95	2	673.57	1	456.96	2	1,340.05	1	1,491.11
Minnesota	3	739.88	3	1,013.54						
Lacrosse, Wisconsin										
Galena, Illinois										
Evansville, Indiana	4	927.95	1	319.46			4	2,840.43		
Cincinnati, Ohio	10	2,512.52	6	1,950.16	4	1,682.61	13	10,443.29	7	8,091.55
Wheeling, West Virginia	7	1,789.27	2	693.39						
Pittsburg, Pennsylvania	21	5,322.98	15	5,136.07	5	2,295.87	15	9,591.66		

a Compiled from reports furnished by commissioner of navigation.

b Comprising the ports of Saint Vincent and Saint Paul.

STATISTICS OF TRANSPORTATION.

TABLE 4.—INCOME AND EXPENDITURE.

GROSS EARNINGS, EXPENSES, AND NET EARNINGS OF ALL STEAMERS (OVER 5 TONS)
OPERATING ON THE RIVERS OF THE MISSISSIPPI VALLEY IN 1889. (*a*)

RIVERS.	Gross earnings.	Expenses.	Net earnings.
Total for Mississippi valley	\$16,337,533	\$12,600,342	\$3,737,191
Upper Mississippi.....	1,994,786	1,403,746	591,040
Saint Croix	169,184	93,703	75,481
Chippewa	18,244	9,844	8,400
Illinois	135,801	114,047	21,754
Missouri, Osage, and Gasconade.....	294,470	229,477	64,993
Total for Upper Mississippi system.....	2,612,485	1,850,817	761,668
Ohio	5,070,654	4,000,777	1,069,877
Allegheny	20,630	18,449	2,181
Monongahela	496,930	398,861	98,069
Muskingum	55,482	40,589	14,893
Little Kanawha.....	30,921	17,343	13,578
Great Kanawha.....	193,006	139,677	53,329
Big Sandy	94,918	69,879	25,039
Kentucky	58,821	33,866	24,955
Green.....	31,889	27,154	4,735
Wabash	42,320	22,140	20,180
Cumberland	205,636	170,939	34,697
Tennessee	400,806	330,893	69,913
Total for Ohio system.....	6,702,013	5,270,567	1,431,446
Lower Mississippi.....	6,236,310	4,849,939	1,386,371
White	100,697	82,443	18,254
Arkansas	86,383	56,549	29,834
Yazoo	144,068	125,469	18,599
Washita	125,180	103,220	21,960
Red.....	324,736	257,092	67,644
Total for Lower Mississippi system.....	7,017,374	5,474,712	1,542,662
Red River of the North.....	5,661	4,246	1,415

a The expense accounts of the barges, flats, and other unrigged are included, wherever practicable, in those of the towing steamers.

RIVERS OF THE MISSISSIPPI VALLEY.

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TABLE 5.—INCOME AND EXPENDITURE BY CLASSES.

GROSS EARNINGS, EXPENSES, AND NET EARNINGS OF ALL STEAMERS, BY CLASSES, (a) OPERATING ON THE RIVERS OF THE MISSISSIPPI VALLEY IN 1889.

RIVERS.	Classes.	Number of vessels in each class.	Gross earnings.	Expenses.	Net earnings.
Total for Mississippi valley.....		975	\$16,337,533	\$12,600,342	\$3,737,191
UPPER MISSISSIPPI SYSTEM.					
Upper Mississippi.....	Passenger and freight.....	23	463,872	380,375	83,497
	Towing.....	77	1,249,850	812,401	437,449
	Ferry.....	24	131,528	92,078	39,450
	Harbor.....	25	102,147	71,503	30,644
	Miscellaneous.....	10	47,389	47,389	.....
Total.....		159	1,994,786	1,403,746	591,040
Saint Croix.....	Towing.....	10	154,597	83,481	71,116
	Ferry.....	1	1,485	1,050	435
	Harbor.....	4	13,102	9,172	3,930
Total.....		15	169,184	93,703	75,481
Chippewa.....	Towing.....	1	18,244	9,844	8,400
Illinois.....	Passenger and freight.....	7	133,764	112,321	21,443
	Ferry.....	2	2,037	1,726	311
Total.....		9	135,801	114,047	21,754
Missouri, Osage, and Gasconade.....	Passenger and freight.....	15	129,620	106,288	23,332
	Ferry.....	24	102,493	72,772	29,721
	Towing and harbor.....	10	62,357	50,417	11,940
Total.....		49	294,470	229,477	64,993
Total for Upper Mississippi system.....		233	2,612,485	1,850,817	761,668
OHIO SYSTEM.					
Ohio.....	Passenger and freight.....	85	2,168,215	1,850,248	317,967
	Towing.....	114	2,168,020	1,657,136	510,884
	Ferry.....	54	431,267	246,893	184,374
	Harbor.....	48	254,934	198,282	56,652
	Miscellaneous.....	25	48,218	48,218	.....
Total.....		326	5,070,654	4,000,777	1,069,877
Allegheny.....	Passenger and freight.....	6	20,630	18,449	2,181
Monongahela.....	Passenger and freight.....	8	130,664	107,179	23,485
	Towing.....	25	306,810	233,447	73,363
	Ferry.....	3	11,238	10,017	1,221
	Miscellaneous.....	12	48,218	48,218	.....
Total.....		48	496,930	398,861	98,069
Muskingum.....	Passenger and freight.....	4	47,571	35,254	12,317
	Towing.....	2	7,361	4,915	2,446
	Harbor.....	1	550	420	130
Total.....		7	55,482	40,589	14,893
Little Kanawha.....	Passenger and freight.....	2	24,471	12,075	12,396
	Towing.....	1	2,000	1,668	332
	Harbor.....	1	3,450	2,600	850
	Miscellaneous.....	1	1,000	1,000	.....
Total.....		5	30,921	17,343	13,578
Great Kanawha.....	Passenger and freight.....	5	46,339	36,288	10,051
	Towing.....	4	47,809	31,938	15,871
	Ferry.....	2	13,283	6,965	6,318
	Harbor.....	6	82,575	61,486	21,089
	Miscellaneous.....	2	3,000	3,000	.....
Total.....		19	193,006	139,677	53,329
Big Sandy.....	Passenger and freight.....	5	62,075	46,572	15,503
	Harbor.....	3	32,843	23,307	9,536
Total.....		8	94,918	69,879	25,039

a The expense accounts of the barges, flats, and other unrigged are included, wherever practicable, in those of the towing steamers.

STATISTICS OF TRANSPORTATION.

TABLE 5.—INCOME AND EXPENDITURE BY CLASSES—Continued.

GROSS EARNINGS, EXPENSES, AND NET EARNINGS OF ALL STEAMERS, BY CLASSES, OPERATING ON THE RIVERS OF THE MISSISSIPPI VALLEY IN 1889—Continued.

RIVERS.	Classes.	Number of vessels in each class.	Gross earnings.	Expenses.	Net earnings.
OHIO SYSTEM—Continued.					
Ohio—Continued.					
Kentucky	Passenger and freight	3	\$40,910	\$23,145	\$17,765
	Towing	1	17,911	10,721	7,190
Total		4	58,821	33,866	24,955
Green	Passenger and freight	5	31,889	27,154	4,735
Wabash	Passenger and freight	2	42,320	22,140	20,180
Cumberland	Passenger and freight	13	179,688	153,412	26,276
	Towing	4	25,948	17,527	8,421
Total		17	205,636	170,939	34,697
Tennessee	Passenger and freight	23	331,345	289,699	41,646
	Towing	6	37,328	28,160	9,168
	Ferry	2	32,133	13,034	19,099
Total		31	400,806	330,893	69,913
Total for Ohio system		478	6,702,013	5,270,567	1,431,446
LOWER MISSISSIPPI SYSTEM.					
Lower Mississippi					
	Passenger and freight	74	3,040,334	2,742,406	297,928
	Towing	35	1,938,513	1,157,068	781,445
	Ferry	45	442,169	362,431	79,738
	Harbor	53	801,479	574,219	227,260
	Miscellaneous	11	13,815	13,815	
Total		218	6,236,310	4,849,939	1,386,371
White	Passenger and freight	5	100,697	82,443	18,254
Arkansas	Passenger and freight	9	57,199	44,881	12,318
	Ferry	6	29,184	11,668	17,516
Total		15	86,383	56,549	29,834
Yazoo	Passenger and freight	11	144,068	125,469	18,599
Washita	Passenger and freight	3	125,180	103,220	21,960
Red	Passenger and freight	9	324,736	257,092	67,644
Total for Lower Mississippi system		261	7,017,374	5,474,712	1,542,662
RED RIVER OF THE NORTH.					
Total	Freight	3	5,661	4,246	1,415

RIVERS OF THE MISSISSIPPI VALLEY.

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TABLE 6.—EMPLOYÉS.

NUMBER OF OFFICERS AND MEN MAKING UP THE TOTALS OF THE ORDINARY CREWS OF ALL VESSELS, BY CLASSES, IN OPERATION ON THE RIVERS OF THE MISSISSIPPI VALLEY IN 1889, TOGETHER WITH THE TOTAL WAGES PAID DURING THAT YEAR.

RIVERS.	Classes.	Number of vessels in each class.	Number making up totals of ordinary crews.	Total wages paid during the year.	RIVERS.	Classes.	Number of vessels in each class.	Number making up totals of ordinary crews.	Total wages paid during the year.
Total for Mississippi valley.		975	15,996	\$5,338,862	OHIO SYSTEM—Cont'd.				
UPPER MISSISSIPPI SYSTEM.					Ohio—Continued.				
Upper Mississippi	Passenger and freight.	23	576	143,333	Great Kanawha	Passenger and freight.	5	62	\$19,410
	Towing	77	1,239	385,364		Towing	4	63	16,919
	Ferry	24	125	53,505		Ferry	2	8	3,420
	Harbor	25	117	37,075		Harbor	6	72	23,070
	Miscellaneous	10	111	20,206		Miscellaneous	2	5	2,366
Total		159	2,168	639,483	Total		19	210	65,185
Saint Croix	Towing	10	159	41,601	Big Sandy	Passenger and freight.	5	99	30,485
	Ferry	1	2	700		Harbor	3	42	13,440
	Harbor	4	15	5,287	Total		8	141	43,925
Total		15	176	47,588	Kentucky	Passenger and freight.	3	66	12,220
Chippewa	Towing	1	16	5,046		Towing	1	15	4,110
Illinois	Passenger and freight.	7	162	35,661	Total		4	81	16,330
	Ferry	2	4	1,100	Green	Passenger and freight.	5	43	5,416
Total		9	166	36,761	Wabash	Passenger and freight.	2	50	13,020
Missouri, Osage, and Gasconade.	Passenger and freight.	15	243	41,794	Cumberland	Passenger and freight.	13	440	73,345
	Ferry	24	104	47,352		Towing	4	25	11,085
	Towing and harbor ..	10	70	24,995	Total		17	465	84,430
Total		49	417	114,141	Tennessee	Passenger and freight.	23	609	140,537
Total for Upper Mississippi system.		233	2,943	843,019		Towing	6	63	13,398
OHIO SYSTEM.						Ferry	2	15	10,800
Ohio	Passenger and freight.	85	2,559	688,407	Total		31	687	164,735
	Towing	114	2,069	910,946	Total for Ohio system.		478	7,663	2,545,625
	Ferry	54	266	142,126	LOWER MISSISSIPPI SYSTEM.				
	Harbor	48	462	152,497	Lower Mississippi	Passenger and freight.	74	2,968	1,032,012
	Miscellaneous	25	68	23,869		Towing	35	720	249,927
Total		326	5,424	1,917,845		Ferry	45	337	183,972
Allegheny	Passenger and freight.	6	31	10,670		Harbor	53	301	176,573
Monongahela	Passenger and freight.	8	81	45,448		Miscellaneous	11	17	12,232
	Towing	25	287	120,408	Total		218	4,343	1,654,716
	Ferry	3	12	7,485	White	Passenger and freight.	5	119	41,997
	Miscellaneous	12	42	22,680	Arkansas	Passenger and freight.	11	141	27,753
Total		48	422	196,021		Ferry	6	20	6,216
Muskingum	Passenger and freight.	4	67	17,305	Total		15	161	33,969
	Towing	2	11	3,406	Yazoo	Passenger and freight.	11	255	60,754
	Harbor	1	3	240	Washita	Passenger and freight.	3	144	43,756
Total		7	81	20,951	Red	Passenger and freight.	9	323	113,349
Little Kanawha	Passenger and freight.	2	18	4,682	Total for Lower Mississippi system.		261	5,345	1,948,541
	Towing	1	5	790	RED RIVER OF THE NORTH.				
	Harbor	1	4	1,085	Total	Freight	3	45	1,677
	Miscellaneous	1	1	540					
Total		5	28	7,097					

STATISTICS OF TRANSPORTATION.

TABLE 7.—TRAFFIC—ALL OPERATING CRAFT.

PASSENGERS CARRIED AND TONS OF FREIGHT MOVED BY ALL CRAFT AND MILES TRAVELED BY ALL STEAMERS (OVER 5 TONS) OPERATING ON THE RIVERS OF THE MISSISSIPPI VALLEY IN 1889.

RIVERS AND THEIR TRIBUTARIES.	PASSENGERS CARRIED.			Freight moved, in tons.	Miles traveled by all steamers.
	Total.	Regular and excursion.	Ferry.		
Grand total for Mississippi valley.....	10,858,894	2,384,248	8,474,646	29,405,046	7,316,545
Upper Mississippi.....	1,478,085	285,676	1,192,409	4,486,421	1,101,990
Saint Croix.....	12,304	6304	12,000	846,816	67,990
Chippewa.....	4,441	64,441	.....	325,477	12,000
Illinois.....	50,368	21,768	28,600	180,264	83,436
Missouri, Osage, and Gasconade.....	276,536	26,561	249,975	1,119,362	159,239
Total for Upper Mississippi system.....	1,821,734	338,750	1,482,984	6,958,340	1,424,655
Ohio.....	5,115,806	1,191,732	3,924,074	7,770,565	2,696,020
Allegheny.....	5,319	5,319	.....	365,946	2,040
Monongahela.....	261,387	130,537	130,850	3,294,932	130,898
Muskingum.....	37,681	37,681	.....	10,281	27,055
Little Kanawha.....	9,451	9,451	.....	115,657	14,740
Great Kanawha.....	92,124	53,599	38,525	1,145,202	59,680
Big Sandy.....	11,000	11,000	.....	286,483	47,350
Kentucky.....	9,550	9,550	.....	256,950	12,588
Green.....	11,200	11,200	.....	819,278	10,300
Wabash.....	180	180	.....	93,178	12,700
Cumberland.....	19,160	19,160	.....	974,316	144,968
Tennessee.....	930,285	27,185	903,100	909,078	420,894
Total for Ohio system.....	6,503,143	1,506,594	4,996,549	16,041,866	3,579,233
Lower Mississippi.....	2,451,315	518,267	1,933,048	24,374,761	1,826,254
White.....	4,183	4,183	.....	86,393	68,786
Arkansas.....	64,716	2,651	62,065	1,663,817	61,689
Yazoo.....	5,391	5,391	.....	77,380	121,216
Washita.....	1,204	1,204	.....	93,707	60,828
Red.....	7,208	7,208	.....	105,145	172,800
Total for Lower Mississippi system.....	2,534,017	538,904	1,995,113	26,401,203	2,311,573
Red River of the North.....	.....	.....	.....	3,637	1,084

a Respectively, 32,993,792 tons, 7,963,507 tons, and 9,989,949 tons, including the coal and lumber which were brought into and carried on the Lower Mississippi from the Upper Mississippi and Ohio rivers. (See page 46.)

b These were excursion passengers carried on towboats.

RIVERS OF THE MISSISSIPPI VALLEY.

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TABLE 8.—TRAFFIC—FREIGHT CARRIED AND TOWED.

FREIGHT CARRIED BY PASSENGER AND FREIGHT STEAMERS AND ON FERRIES AND FREIGHT TOWED BY PASSENGER AND FREIGHT STEAMERS AND TOWBOATS OPERATING ON THE RIVERS OF THE MISSISSIPPI VALLEY IN 1889.

RIVERS.	Total tons freight carried and towed.	FREIGHT CARRIED.			FREIGHT TOWED.		
		Total tons carried.	On passenger and freight steamers.	On ferry steamers.	Total tons towed.	By passenger and freight steamers.	By towboats.
Total for Mississippi valley.....	29,405,046	10,345,504	9,233,598	1,111,906	19,059,542	1,926,200	17,133,342
Upper Mississippi.....	4,486,421	1,057,873	518,816	539,057	3,428,548	.....	3,428,548
Saint Croix.....	846,816	800	.....	800	846,016	.....	846,016
Chippewa.....	325,477	.....	.....	.....	325,477	.....	325,477
Illinois.....	180,264	135,572	135,572	.....	44,692	44,692	.....
Missouri, Osage, and Gasconade.....	1,119,362	957,379	799,344	158,035	161,983	.....	161,983
Total for Upper Mississippi system.....	6,958,340	2,151,624	1,453,732	697,892	4,806,716	44,692	4,762,024
Ohio.....	7,770,565	2,559,446	2,314,548	244,898	5,211,119	.....	5,211,119
Allegheny.....	365,946	115,696	115,696	.....	250,250	250,250	.....
Monongahela.....	3,294,932	151,725	151,725	.....	3,143,207	.....	3,143,207
Muskingum.....	10,281	10,281	10,281	.....	.....	.....	.....
Little Kanawha.....	115,657	2,968	2,968	.....	112,689	.....	112,689
Great Kanawha.....	1,145,202	112,838	112,838	.....	1,032,364	.....	1,032,364
Big Sandy.....	286,483	156,074	156,074	.....	130,409	130,409	.....
Kentucky.....	256,950	53,047	53,047	.....	203,903	.....	203,903
Green.....	819,278	172,508	172,508	.....	646,770	646,770	.....
Wabash.....	93,178	35,378	35,378	.....	57,800	57,800	.....
Cumberland.....	974,316	217,534	217,534	.....	756,782	.....	756,782
Tennessee.....	909,078	219,170	219,170	.....	689,908	.....	689,908
Total for Ohio system.....	16,041,866	3,806,665	3,561,767	244,898	12,235,201	1,085,229	11,149,972
Lower Mississippi.....	4,374,761	3,153,415	2,985,399	168,016	1,221,346	.....	1,221,346
White.....	86,393	22,537	22,537	.....	63,856	63,856	.....
Arkansas.....	1,663,817	1,020,023	1,018,923	1,100	643,794	643,794	.....
Yazoo.....	77,380	37,138	37,138	.....	40,242	40,242	.....
Washita.....	93,707	64,597	64,597	.....	29,110	29,110	.....
Red.....	105,145	89,505	89,505	.....	15,640	15,640	.....
Total for Lower Mississippi system.....	6,401,203	4,387,215	4,218,099	169,116	2,013,988	792,642	1,221,346
Red River of the North.....	3,637	.....	.....	.....	3,637	3,637	.....

STATISTICS OF TRANSPORTATION.

TABLE 9.—FREIGHT TRAFFIC BY COMMODITIES.

PRINCIPAL COMMODITIES OF THE FREIGHT, IN TONS, CARRIED ON PASSENGER AND FREIGHT STEAMERS (OVER 5 TONS) OPERATING ON THE RIVERS OF THE MISSISSIPPI VALLEY IN 1889.

RIVERS.	Total.	PRODUCTS OF AGRICULTURE.								PRODUCTS OF MINES.				
		Wheat.	Corn.	Other grain.	Mill products.	Cotton.	Tobacco.	Fruit and vegetables.	Hay.	Bituminous coal.	Iron ore.	Other ore.	Stone and gravel.	Clay and sand.
Total Mississippi valley.	9,233,598	836,386	311,598	88,949	89,992	808,135	27,707	41,748	33,944	313	894	450	21,932	959
Upper Mississippi	518,816	23,000			630									
Illinois	135,572	18,000			747					300				
Missouri, Osage, and Gasconade.	799,344	136,000	50,000		9,275									
Total Upper Mississippi system.	1,453,732	177,000	50,000		10,652					300				
Ohio	2,314,548	124,405			620	9,412					894			
Allegheny	115,696							21	890					
Monongahela	151,725													
Muskingum	10,281	1,693												
Little Kanawha	2,968													
Great Kanawha	112,838				2,577									
Big Sandy	156,074		423					2,511						
Kentucky	53,047			5,949	1,503		2,783		4,407					
Green	172,508			1,431	773		4,723	501	319					
Wabash	35,378	1,811	15,849	00									1,754	
Cumberland	217,534			20,983	3,628		10,201		895					
Tennessee	219,170	5,477	17,984	5,351	2,267	10,138	10,000	18,657	2,440	13			20,178	959
Total Ohio system	3,561,767	133,386	34,256	33,813	11,368	19,550	27,707	21,690	8,951	13	894		21,932	959
Lower Mississippi	2,985,399	420,000	77,543	33,332	9,462	716,503			504					
White	22,537					7,403						450		
Arkansas	1,018,923	100,000	110,282	21,804	57,655	35,003		20,058	24,489					
Yazoo	37,138		22,865											
Washita	64,597		16,652											
Red	89,505	6,000			855	29,676								
Total Lower Mississippi system.	4,218,099	526,000	227,342	55,136	67,972	788,585		20,058	24,993			450		

RIVERS.	OTHER PRODUCTS.			MANUFACTURES.								Merchandise, etc.
	Ice.	Lumber and forest products.	Animal products.	Petroleum and other oils.	Sugar.	Iron, pig and bloom.	Other iron manufactures.	Bar and sheet metal.	Cement, brick, and lime.	All other manufactures.	Cotton seed and oil.	
Total Mississippi valley	10	547,545	170,518	3,534	90,844	5,275	92,110	112	1,265	48,536	388,684	5,622,158
Upper Mississippi			2,356									492,830
Illinois			2,094									114,431
Missouri, Osage, and Gasconade.			6,175									597,894
Total Upper Mississippi system.			10,625									1,205,155
Ohio					57,881		54,297			29,113		2,037,926
Allegheny		97,360		2,450			300			2,025		12,650
Monongahela		30,806	1,407				2,177					117,335
Muskingum		475										8,113
Little Kanawha				678								2,290
Great Kanawha									213			110,048
Big Sandy		12,541	676							34		139,889
Kentucky		9,547	2,350				1,903			5,051		19,554
Green		152,541	501				98		90	2,598		8,933
Wabash		9,500								271		6,094
Cumberland		146,398	5,623			3,006				5,028		21,772
Tennessee	10	44,732	1,048	406	1,015	2,269	50	112	962	4,416	1,800	68,886
Total Ohio system	10	503,900	11,605	3,534	58,896	5,275	58,825	112	1,265	48,536	1,800	2,553,490
Lower Mississippi					30,828						271,809	1,425,418
White											2,338	12,346
Arkansas		40,784	148,125				33,285				85,784	341,654
Yazoo		2,861	65								8,020	3,327
Washita			98								5,058	42,789
Red					1,120						13,875	37,979
Total Lower Mississippi system.		43,645	148,288		31,948		33,285				386,884	1,863,513

RIVERS OF THE MISSISSIPPI VALLEY.

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TABLE 10.—FREIGHT TRAFFIC (IN TONS), BY COMMODITIES, ON UNRIGGED CRAFT.

RIVERS.	Total.	PRODUCTS OF AGRICULTURE.						PRODUCTS OF MINES.			
		Wheat.	Corn.	Other grain.	Mill products.	Cotton.	Hay.	Bituminous coal.	Iron ore.	Stone and gravel.	Clay and sand.
Total for Mississippi valley	19, 059, 542	3, 595	471, 203	3, 767	580	87, 607	57, 635	8, 527, 115	573, 896	156, 699	141, 464
Upper Mississippi	3, 428, 548							10, 624			
Saint Croix	846, 016										
Chippewa	325, 477										
Illinois	44, 692							2, 000			
Missouri, Osage, and Gasconade	161, 983						5, 000	51, 162	1, 500		
Total for Upper Mississippi system	4, 806, 716						5, 000	63, 786	1, 500		
Ohio	5, 211, 119	595				9, 110	635	4, 018, 787	10, 762		
Allegheny	250, 250									19, 050	51, 500
Monongahela	3, 143, 207							3, 059, 418	33, 386		
Little Kanawha	112, 689							1, 100			
Great Kanawha	1, 032, 364							941, 446			
Big Sandy	130, 409										
Kentucky	203, 903			1, 042						12, 861	
Green	646, 770							45, 904		788	
Wabash	57, 800									4, 000	
Cumberland	756, 782										89, 964
Tennessee	689, 908					2, 404	5, 000	35, 875	528, 248		
Total for Ohio system	12, 235, 201	595		1, 042		11, 514	5, 635	8, 102, 530	572, 396	36, 699	141, 464
Lower Mississippi	1, 221, 346		421, 203	2, 725		66, 955	5, 000	183, 848			
White	63, 856										
Arkansas	643, 794		50, 000				42, 000	165, 888		120, 000	
Yazoo	40, 242					9, 138					
Washita	29, 110										
Red	15, 640							11, 063			
Total for Lower Mississippi system	2, 013, 988		471, 203	2, 725		76, 093	47, 000	360, 799		120, 000	
Red River of the North	3, 637	3, 000			580						

RIVERS.	OTHER PRODUCTS.		MANUFACTURES.					Merchandise, etc.
	Ice.	Lumber and forest products.	Sugar.	Iron (pig and bloom).	Cement, brick, and lime.	All other manufactures.	Cotton seed and oil.	
Total for Mississippi valley	91, 000	8, 652, 696	100, 000	2, 500	928	26, 050	6, 104	156, 703
Upper Mississippi	45, 050	3, 372, 874						
Saint Croix		846, 016						
Chippewa		325, 477						
Illinois	41, 950	742						
Missouri, Osage, and Gasconade		104, 321						
Total for Upper Mississippi system	87, 000	4, 649, 430						
Ohio		1, 131, 755				26, 050		13, 425
Allegheny		179, 500			200			
Monongahela		50, 403						
Little Kanawha		109, 079						2, 510
Great Kanawha		80, 468			650			9, 800
Big Sandy		130, 409						
Kentucky		190, 000						
Green		600, 000			78			
Wabash		53, 800						
Cumberland		664, 318		2, 500				
Tennessee		118, 381						
Total for Ohio system		3, 308, 113		2, 500	928	26, 050		25, 735
Lower Mississippi		310, 654	100, 000					130, 961
White		63, 856						
Arkansas	4, 000	261, 906						
Yazoo		25, 000					6, 104	
Washita		29, 110						
Red		4, 577						
Total for Lower Mississippi system	4, 000	695, 103	100, 000				6, 104	130, 961
Red River of the North		50						7

STATISTICS OF TRANSPORTATION.

TABLE 11.—FREIGHT TRAFFIC BY COMMODITIES.

PRINCIPAL COMMODITIES OF THE FREIGHT, IN TONS, MOVED BY FERRYBOATS (OVER 5 TONS) OPERATING ON THE RIVERS OF THE MISSISSIPPI VALLEY IN 1889.

RIVERS.	Total.	PRODUCTS OF AGRICULTURE.						
		Wheat.	Corn.	Other grain.	Mill products.	Cotton.	Tobacco.	Fruit and vegetables.
Total Mississippi valley	1, 111, 906	8, 461	4, 087	2, 872	323	550	252	17, 862
Upper Mississippi	539, 057		1, 000	2, 870				700
Saint Croix	800							
Missouri, Osage, and Gasconade	158, 035	5, 658	502		323		252	62
Total Upper Mississippi system	697, 892	5, 658	1, 502	2, 870	323		252	762
Ohio	244, 898	3	2, 585	2				
Lower Mississippi	168, 016	2, 800				550		16, 000
Arkansas	1, 100							1, 100
Total Lower Mississippi system	169, 116	2, 800				550		17, 100

RIVERS.	Bituminous coal.	OTHER PRODUCTS.		MANUFACTURES.					Merchandise, etc.
		Lumber.	Animal products.	Petroleum and other oils.	Sugar.	Bar and sheet metal.	Cement, brick, and lime.	All other manufactures.	
Total Mississippi valley	11, 801	100, 400	6, 858	4	29	1	182	10	958, 214
Upper Mississippi	11, 800	100, 315	1, 144				160	10	421, 058
Saint Croix									800
Missouri, Osage, and Gasconade		63	5, 249	4	29		18		145, 875
Total Upper Mississippi system	11, 800	100, 378	6, 393	4	29		178	10	567, 733
Ohio	1	22	165			1	4		242, 115
Lower Mississippi			300						148, 366
Arkansas									
Total Lower Mississippi system			300						148, 366

TABLE 12.—FREIGHT TRAFFIC BY COMMODITIES.

PRINCIPAL COMMODITIES OF THE TOTAL FREIGHT, IN TONS, MOVED BY FREIGHT AND PASSENGER STEAMERS, FERRYBOATS, AND UNRIGGED CRAFT (OVER 5 TONS) OPERATING ON THE RIVERS OF THE MISSISSIPPI VALLEY IN 1889.

RIVERS.	Total.	PRODUCTS OF AGRICULTURE.								PRODUCTS OF MINES.				
		Wheat.	Corn.	Other grain.	Mill prod-ucts.	Cotton.	Tobacco.	Fruit and vegeta-bles.	Hay.	Bituminous coal.	Iron ore.	Other ore.	Stone and gravel.	Clay and sand.
Total Mississippi valley...	29,405,046	848,442	786,888	95,588	90,895	896,292	27,959	59,610	91,579	8,539,229	574,790	450	178,631	142,423
Upper Mississippi.....	4,486,421	23,000	1,000	2,870	630	.....	.....	700	.....	22,424	.....	.....	.....	.....
Saint Croix.....	846,816	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chippewa.....	325,477	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Illinois.....	180,264	18,000	.....	.....	747	.....	.....	.....	.....	2,300	.....	.....	.....	.....
Missouri, Osage, and Gasconade	1,119,362	141,658	50,502	.....	9,598	.....	252	62	5,000	51,162	1,500	.....	.....	.....
Total for Upper Mississippi system.	6,958,340	182,658	51,502	2,870	10,975	.....	252	762	5,000	75,886	1,500	.....	.....	.....
Ohio.....	7,770,565	125,003	2,585	2	620	18,522	.....	.....	635	4,018,788	11,656	.....	.....	.....
Allegheny.....	365,946	.....	.....	.....	.....	.....	.....	21	890	.....	.....	.....	19,050	51,500
Monongahela.....	3,294,932	.....	.....	.....	.....	.....	.....	.....	.....	3,059,418	33,386	.....	.....	.....
Muskingum.....	10,281	1,693	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Little Kanawha.....	115,657	.....	.....	.....	.....	.....	.....	.....	.....	1,100	.....	.....	.....	.....
Great Kanawha.....	1,145,202	.....	.....	.....	2,577	.....	.....	.....	.....	941,446	.....	.....	.....	.....
Big Sandy.....	286,483	.....	423	.....	.....	.....	.....	2,511	.....	.....	.....	.....	.....	.....
Kentucky.....	256,950	.....	.....	6,991	1,503	.....	2,783	.....	4,407	.....	.....	.....	12,861	.....
Green.....	819,278	.....	.....	1,431	773	.....	4,723	501	319	45,904	.....	.....	788	.....
Wabash.....	93,178	1,811	15,849	99	.....	.....	.....	.....	.....	.....	.....	.....	5,754	.....
Cumberland.....	974,316	.....	.....	20,983	3,628	.....	10,201	.....	895	.....	.....	.....	.....	89,964
Tennessee.....	909,078	5,477	17,984	5,351	2,267	12,542	10,000	18,657	7,440	35,888	528,248	.....	20,178	959
Total for Ohio system.....	16,041,866	133,984	36,841	34,857	11,368	31,064	27,707	21,690	14,586	8,102,544	573,290	.....	58,631	142,423
Lower Mississippi.....	4,374,761	422,800	498,746	36,057	9,462	784,008	.....	16,000	5,504	183,848	.....	.....	.....	.....
White.....	86,393	.....	.....	.....	.....	7,403	.....	.....	.....	.....	.....	450	.....	.....
Arkansas.....	1,663,817	100,000	160,282	21,804	57,655	35,003	.....	21,158	66,489	165,888	.....	.....	120,000	.....
Yazoo.....	77,380	.....	22,865	.....	.....	9,138	.....	.....	.....	.....	.....	.....	.....	.....
Washita.....	93,707	.....	16,652	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Red.....	105,145	6,000	.....	.....	855	29,676	.....	.....	.....	11,063	.....	.....	.....	.....
Total for Lower Mississippi system.	6,401,203	528,800	698,545	57,861	67,972	865,228	.....	37,158	71,993	360,799	.....	450	120,000	.....
Red River of the North.....	3,637	3,000	.....	.....	580	.....	.....	.....	.....	.....	.....	.....	.....	.....

STATEMENT OF FREIGHT CARRIED AND TOWED ON THE LOWER MISSISSIPPI, INCLUDING COAL AND LUMBER FROM UPPER MISSISSIPPI AND OHIO RIVER SYSTEMS. (a)

Lower Mississippi.....	7,963,507	422,800	498,746	36,057	9,462	784,008	.....	16,000	5,504	2,288,529	.....	.....	.....	.....
Total Lower Mississippi system...	9,989,949	528,800	698,545	57,861	67,972	865,228	.....	37,158	71,993	2,465,480	.....	450	120,000	.....
Total Mississippi valley.....	32,993,792	848,442	786,888	95,588	90,895	896,292	27,959	59,610	91,579	10,643,910	574,790	450	178,631	142,423

a See page 15.

STATISTICS OF TRANSPORTATION.

TABLE 12.—FREIGHT TRAFFIC BY COMMODITIES—Continued.

PRINCIPAL COMMODITIES OF THE TOTAL FREIGHT, IN TONS, MOVED BY FREIGHT AND PASSENGER STEAMERS, FERRYBOATS, AND UNRIGGED CRAFT (OVER 5 TONS) OPERATING ON THE RIVERS OF THE MISSISSIPPI VALLEY IN 1889—Continued.

RIVERS.	OTHER PRODUCTS.			MANUFACTURES.								Merchandise, etc.
	Ice.	Lumber and forest products.	Animal products.	Petroleum and other oils.	Sugar.	Iron (pig and bloom).	Other iron manufactures.	Bar and sheet metal.	Cement, brick, and lime.	All other manufactures.	Cotton seed and cotton-seed oil.	
Total Mississippi valley...	91,010	9,300,641	177,376	3,538	190,873	7,775	92,110	113	2,375	74,596	394,788	6,737,075
Upper Mississippi.....	45,050	3,473,189	3,500						160	10		913,888
Saint Croix.....		846,016										800
Chippewa.....		325,477										
Illinois.....	41,950	742	2,094									114,431
Missouri, Osage, and Gasconade		104,384	11,424	4	29				18			743,769
Total.....	87,000	4,749,808	17,018	4	29				178	10		1,772,888
Ohio.....		1,131,777	165		57,881		54,297	1	4	55,163		2,293,466
Allegheny.....		276,860		2,450			300		200	2,025		12,650
Monongahela.....		81,209	1,407				2,177					117,335
Muskingum.....		475										8,113
Little Kanawha.....		109,079		678								4,800
Great Kanawha.....		80,468							863			119,848
Big Sandy.....		142,950	676							34		139,889
Kentucky.....		199,547	2,350				1,903			5,051		19,554
Green.....		752,541	501				98		168	2,598		8,933
Wabash.....		63,300								271		6,094
Cumberland.....		810,716	5,623			5,506				5,028		21,772
Tennessee.....	10	163,113	1,048	406	1,015	2,269	50	112	962	4,416	1,800	68,886
Total.....	10	3,812,035	11,770	3,534	58,896	7,775	58,825	113	2,197	74,586	1,800	2,821,340
Lower Mississippi.....		310,654	300		130,828						271,809	1,704,745
White.....		63,856									2,338	12,346
Arkansas.....	4,000	302,690	148,125				33,285				85,784	341,654
Yazoo.....		27,861	65								14,124	3,327
Washita.....		29,110	98								5,058	42,789
Red.....		4,577			1,120						13,875	37,979
Total.....	4,000	738,748	148,588		131,948		33,285				392,988	2,142,840
Red River of the North.....		50										7

STATEMENT OF FREIGHT CARRIED AND TOWED ON THE LOWER MISSISSIPPI, INCLUDING COAL AND LUMBER FROM UPPER MISSISSIPPI AND OHIO RIVER SYSTEMS—Continued.

Lower Mississippi.....		1,794,719	300		130,828						271,809	1,704,745
Total Lower Mississippi system...	4,000	2,222,813	148,588		131,948		33,285				392,988	2,142,840
Total Mississippi valley.....	91,010	10,784,706	177,376	3,538	190,873	7,775	92,110	113	2,375	74,596	394,788	6,737,075

TABLE 13.—GENERAL ACCOUNT—PASSENGER AND FREIGHT STEAMERS.

NUMBER, TONNAGE, VALUE, OPERATIONS, FINANCIAL ACCOUNT, AND EMPLOYÉS, WITH WAGES PAID, OF PASSENGER AND FREIGHT STEAMERS (OVER 5 TONS) OPERATING ON THE RIVERS OF THE MISSISSIPPI VALLEY IN 1889.

RIVERS.	EQUIPMENT.			TRAFFIC.		INCOME AND EXPENDITURE.			EMPLOYÉS. (a)	
	Number.	Tonnage.	Value.	Tons of freight moved.	Passengers carried.	Gross earnings.	Expenses.	Net earnings.	Men employed.	Total wages paid.
Total for Mississippi valley.....	320	95,215.26	\$3,661,475	11,159,798 9,233,598 b1,926,200	2,384,248	\$7,651,248	\$6,580,356	\$1,070,892	9,101	\$2,603,031
Upper Mississippi.....	23	5,732.91	281,700	518,816	285,676	463,872	380,375	83,497	576	143,333
Saint Croix.....					c304					
Chippewa.....					c4,441					
Illinois.....	7	1,811.80	79,200	{ 135,572 } b44,692	{ 21,768 }	133,764	112,321	21,443	162	35,661
Missouri, Osage, and Gasconade.....	15	2,458.85	70,300	799,344	26,561	129,620	106,288	23,332	243	41,794
Total for Upper Mississippi system.	45	10,003.56	431,200	1,498,424 1,453,732 b44,692	338,750	727,256	598,984	128,272	981	220,788
Ohio.....	85	32,688.82	1,209,825	2,314,548	1,191,732	2,168,215	1,850,248	317,967	2,559	688,407
Allegheny.....	6	715.84	53,000	{ 115,696 } b250,250	{ 5,319 }	20,630	18,449	2,181	31	10,670
Monongahela.....	8	1,471.48	75,700	151,725	130,537	130,664	107,179	23,485	81	45,448
Muskingum.....	4	333.35	16,750	10,281	37,681	47,571	35,254	12,317	67	17,805
Little Kanawha.....	2	143.56	10,000	2,968	9,451	24,471	12,075	12,396	18	4,682
Great Kanawha.....	5	427.55	23,500	112,838	53,599	46,339	36,288	10,051	62	19,410
Big Sandy.....	5	443.65	16,000	{ 156,074 } b130,409	{ 11,000 }	62,075	46,572	15,503	99	30,485
Kentucky.....	3	246.52	15,000	53,047	9,550	40,910	23,145	17,765	66	12,220
Green.....	5	316.68	13,500	{ 172,508 } b646,770	{ 11,200 }	31,889	27,154	4,735	43	5,416
Wabash.....	2	243.33	7,500	{ 35,378 } b57,800	{ 180 }	42,320	22,140	20,180	50	13,020
Cumberland.....	13	2,631.48	100,800	217,534	19,160	179,688	153,412	26,276	440	73,345
Tennessee.....	23	5,851.24	210,500	219,170	27,185	331,345	289,699	41,646	609	140,537
Total for Ohio system.....	161	45,513.50	1,752,075	4,646,996 3,561,767 b1,085,229	1,506,594	3,126,117	2,621,615	504,502	4,125	1,060,945
Lower Mississippi.....	74	31,898.33	1,186,300	2,985,399	518,267	3,040,334	2,742,406	297,928	2,968	1,032,012
White.....	5	1,229.71	45,000	{ 22,537 } b63,856	{ 4,183 }	100,697	82,443	18,254	119	41,997
Arkansas.....	9	1,785.91	46,700	{ 1,018,923 } b643,794	{ 2,651 }	57,199	44,881	12,318	141	27,753
Yazoo.....	11	1,409.68	62,000	{ 37,138 } b40,242	{ 5,391 }	144,068	125,469	18,599	255	60,754
Washita.....	3	994.52	45,000	{ 64,597 } b29,110	{ 1,204 }	125,180	103,220	21,960	144	43,756
Red.....	9	1,968.88	80,700	{ 89,505 } b15,640	{ 7,208 }	324,736	257,092	67,644	323	113,349
Total for Lower Mississippi system.	111	39,287.03	1,465,700	5,010,741 4,218,099 b792,642	538,904	3,792,214	3,355,511	436,703	3,950	1,319,621
Red River of the North.....	3	411.17	12,500	b3,637		5,661	4,246	1,415	45	1,677

a See page 13.

b Towed by passenger and freight steamers.

c These were excursion passengers carried on towboats.

STATISTICS OF TRANSPORTATION.

TABLE 14.—GENERAL ACCOUNT—TOWBOATS.

NUMBER, TONNAGE, VALUE, OPERATIONS, FINANCIAL ACCOUNT, AND EMPLOYÉS, WITH WAGES PAID, OF TOWING STEAMERS (OVER 5 TONS) OPERATING ON THE RIVERS OF THE MISSISSIPPI VALLEY IN 1889.

RIVERS.	EQUIPMENT.			Tons of freight moved.	INCOME AND EXPENDITURE.			EMPLOYÉS. (a)	
	Number.	Tonnage.	Value.		Gross earnings.	Expenses.	Net earnings.	Men employed.	Total wages paid.
Total for Mississippi valley.....	290	53,875.55	\$3,422,983	17,133,342	\$6,036,748	\$4,098,723	\$1,938,025	4,742	\$1,787,995
Upper Mississippi.....	77	9,736.51	621,800	3,428,548	1,249,850	812,401	437,449	1,239	385,364
Saint Croix.....	10	1,129.82	88,500	846,016	154,597	83,481	71,116	159	41,601
Chippewa.....	1	108.00	7,000	325,477	18,244	9,844	8,400	16	5,046
Illinois.....									
Missouri, Osage, and Gasconade.....	10	573.37	41,700	161,983	62,357	50,417	11,940	70	24,995
Total for Upper Mississippi system.....	98	11,547.70	759,000	4,762,024	1,485,048	956,143	528,905	1,484	457,006
Ohio.....	114	26,708.08	1,680,600	5,211,119	2,168,020	1,657,136	510,884	2,069	910,946
Allegheny.....									
Monongahela.....	25	3,441.97	246,700	3,143,207	306,810	233,447	73,363	287	120,408
Muskingum.....	2	219.35	7,000	(b)	7,361	4,915	2,446	11	3,406
Little Kanawha.....	1	34.93	4,000	112,689	2,000	1,668	332	5	790
Great Kanawha.....	4	692.66	39,333	1,032,364	47,809	31,938	15,871	63	16,919
Big Sandy.....									
Kentucky.....	1	77.88	4,000	203,903	17,911	10,721	7,190	15	4,110
Green.....									
Wabash.....									
Cumberland.....	4	304.09	8,500	756,782	25,948	17,527	8,421	25	11,085
Tennessee.....	6	1,183.71	46,250	689,908	37,328	28,160	9,168	63	13,398
Total for Ohio system.....	157	32,662.67	2,036,383	11,149,972	2,613,187	1,985,512	627,675	2,538	1,081,062
Lower Mississippi.....	35	9,665.18	627,600	1,221,346	1,938,513	1,157,068	781,445	720	249,927
White.....									
Arkansas.....									
Yazoo.....									
Washita.....									
Red.....									
Total for Lower Mississippi system.....	35	9,665.18	627,600	1,221,346	1,938,513	1,157,068	781,445	720	249,927
Red River of the North.....									

a See page 13.

b Chartered to the United States government in 1889.

RIVERS OF THE MISSISSIPPI VALLEY.

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TABLE 15.—GENERAL ACCOUNT—FERRYBOATS.

NUMBER, TONNAGE, VALUE, OPERATIONS, FINANCIAL ACCOUNT, AND EMPLOYÉS, WITH WAGES PAID, OF FERRY STEAMERS (OVER 5 TONS) OPERATING ON THE RIVERS OF THE MISSISSIPPI VALLEY IN 1889.

RIVERS.	EQUIPMENT.			TRAFFIC.		INCOME AND EXPENDITURE.			EMPLOYÉS. (a)	
	Number.	Tonnage.	Value.	Tons of freight moved.	Passengers carried.	Gross earnings.	Expenses.	Net earnings.	Men employed.	Total wages paid.
Total for Mississippi valley.....	163	18,593.40	\$1,056,250	1,111,906	8,474,646	\$1,196,817	\$818,634	\$378,183	893	\$456,676
Upper Mississippi.....	24	2,144.39	170,200	539,057	1,192,409	131,528	92,078	39,450	125	53,505
Saint Croix.....	1	26.98	3,000	800	12,000	1,485	1,050	435	2	700
Chippewa.....										
Illinois.....	2	48.45	1,000		28,600	2,037	1,726	311	4	1,100
Missouri, Osage, and Gasconade.....	24	1,685.49	94,100	158,035	249,975	102,493	72,772	29,721	104	47,352
Total for Upper Mississippi system.....	51	3,905.31	268,300	697,892	1,482,984	237,543	167,626	69,917	235	102,657
Ohio.....	54	10,918.00	350,250	244,898	3,924,074	431,267	246,893	184,374	266	142,126
Allegheny.....										
Monongahela.....	3	263.39	15,000		130,850	11,238	10,017	1,221	12	7,485
Muskingum.....										
Little Kanawha.....										
Great Kanawha.....	2	102.47	8,000		38,525	13,283	6,965	6,318	8	3,420
Big Sandy.....										
Kentucky.....										
Green.....										
Wabash.....										
Cumberland.....										
Tennessee.....	2	259.67	3,000		909,100	32,133	13,034	19,099	15	10,800
Total for Ohio system.....	61	11,543.53	376,250	244,898	4,996,549	487,921	276,909	211,012	301	163,831
Lower Mississippi.....	45	2,831.74	392,200	168,016	1,933,048	442,169	362,431	79,738	337	183,972
White.....										
Arkansas.....	11	312.82	19,500	1,100	62,065	29,184	11,668	17,516	20	6,216
Yazoo.....										
Washita.....										
Red.....										
Total for Lower Mississippi system.....	51	3,144.56	411,700	169,116	1,995,113	471,353	374,099	97,254	357	190,188
Red River of the North.....										

a See page 13.

STATISTICS OF TRANSPORTATION.

TABLE 16.—GENERAL ACCOUNT—HARBOR BOATS.

NUMBER, TONNAGE, VALUE, FINANCIAL ACCOUNT, AND EMPLOYÉS, WITH WAGES PAID, OF HARBOR BOATS OPERATING IN THE PORTS OF THE MISSISSIPPI VALLEY IN 1889.

RIVERS.	EQUIPMENT.			INCOME AND EXPENDITURE.			EMPLOYÉS. (a)	
	Number.	Tonnage.	Value.	Gross earnings.	Expenses.	Net earnings.	Men employed.	Total wages paid.
Total for Mississippi valley.....	141	18,981.96	\$1,028,350	\$1,291,080	\$940,989	\$350,091	1,016	\$409,267
Upper Mississippi.....	25	994.26	62,250	102,147	71,503	30,644	117	37,075
Saint Croix.....	4	101.55	7,500	13,102	9,172	3,930	15	5,287
Chippewa.....								
Illinois.....								
Missouri, Osage, and Gasconade.....								
Total for Upper Mississippi system.....	29	1,095.81	69,750	115,249	80,675	34,574	132	42,362
Ohio.....	48	4,275.11	301,000	254,934	198,282	56,652	462	152,497
Allegheny.....								
Monongahela.....								
Muskingum.....	1	15.09	1,300	550	420	130	8	240
Little Kanawha.....	1	25.64	3,000	3,450	2,600	850	4	1,085
Great Kanawha.....	6	822.49	41,000	82,575	61,486	21,089	72	23,070
Big Sandy.....	3	344.02	24,000	32,845	23,307	9,536	42	13,440
Kentucky.....								
Green.....								
Wabash.....								
Cumberland.....								
Tennessee.....								
Total for Ohio system.....	59	5,482.35	370,300	374,352	286,095	88,257	583	190,332
Lower Mississippi.....	53	12,403.80	588,300	801,479	574,219	227,260	301	176,573
White.....								
Arkansas.....								
Yazoo.....								
Washita.....								
Red.....								
Total for Lower Mississippi system.....	53	12,403.80	588,300	801,479	574,219	227,260	301	176,573
Red River of the North.....								

a See page 13.

TABLE 17.—GENERAL ACCOUNT—MISCELLANEOUS CRAFT.

NUMBER, TONNAGE, VALUE, FINANCIAL ACCOUNT, AND EMPLOYÉS, WITH WAGES PAID, OF MISCELLANEOUS CRAFT OPERATING IN THE PORTS OF THE MISSISSIPPI VALLEY IN 1889.

RIVERS.	EQUIPMENT.			INCOME AND EXPENDITURE.			EMPLOYÉS. (a)	
	Number.	Tonnage.	Value.	Gross earnings.	Expenses.	Net earnings.	Men employed.	Total wages paid.
Total for Mississippi valley	61	6,718.65	\$466,050	\$161,640	\$161,640		244	\$81,893
Upper Mississippi.....	10	1,999.75	139,800	47,389	47,389		111	20,206
Saint Croix								
Chippewa								
Illinois								
Missouri, Osage, and Gasconade.....								
Total for Upper Mississippi system	10	1,999.75	139,800	47,389	47,389		111	20,206
Ohio.....	25	2,978.83	169,200	48,218	48,218		68	23,869
Allegheny								
Monongahela	12	1,057.81	82,200	48,218	48,218		42	22,680
Muskingum								
Little Kanawha	1	24.05	1,000	1,000	1,000		1	540
Great Kanawha	2	58.78	3,500	3,000	3,000		5	2,366
Big Sandy								
Kentucky								
Green								
Wabash								
Cumberland								
Tennessee								
Total for Ohio system	40	4,118.97	255,900	100,436	100,436		116	49,455
Lower Mississippi.....	11	599.93	70,350	13,815	13,815		17	12,232
White								
Arkansas								
Yazoo								
Washita								
Red								
Total for Lower Mississippi system	11	599.93	70,350	13,815	13,815		17	12,232
Red River of the North.....								

a See page 13.

TABLE 18.—GENERAL ACCOUNT—NO TRAFFIC REPORT.

NUMBER, TONNAGE, AND VALUE OF ALL CRAFT (OVER 5 TONS) OWNED IN THE PORTS OF THE MISSISSIPPI VALLEY, FOR WHICH NO TRAFFIC REPORT WAS RECEIVED FOR 1889.

RIVERS.	EQUIPMENT.			RIVERS.	EQUIPMENT.		
	Number.	Tonnage.	Value.		Number.	Tonnage.	Value.
Total for Mississippi valley.....	139	17,387.07	\$904,143	Ohio—Continued.			
Upper Mississippi.....	29	4,370.39	209,619	Green			
Saint Croix				Wabash	1	53.67	\$2,500
Chippewa				Cumberland			
Illinois				Tennessee	1	22.27	1,000
Missouri, Osage, and Gasconade.....	3	42.13	3,600	Total for Ohio system	59	7,874.81	401,802
Total for Upper Mississippi system.....	32	4,412.52	213,219	Lower Mississippi.....	47	5,077.09	287,622
Ohio.....	54	7,466.78	388,302	White			
Allegheny				Arkansas			
Monongahela				Yazoo			
Muskingum				Washita			
Little Kanawha				Red			
Great Kanawha	2	282.18	8,000	Total for Lower Mississippi system.....	47	5,077.09	287,622
Big Sandy				Red River of the North.....	1	22.65	1,500
Kentucky	1	49.91	2,000				

STATISTICS OF TRANSPORTATION

TABLE 19.—GENERAL ACCOUNT—RÉSUMÉ.

NUMBER, TONNAGE, VALUE, OPERATIONS, FINANCIAL ACCOUNT, EMPLOYÉS, AND WAGES PAID OF ALL STEAMERS REGISTERED IN THE PORTS OF THE RIVERS OF THE MISSISSIPPI VALLEY IN 1889.

RIVERS.	EQUIPMENT.			TRAFFIC.			INCOME AND EXPENDITURE.			EMPLOYÉS. (a)	
	Number.	Tonnage.	Value.	Miles traveled.	Freight moved. (Tons.)	Passengers carried.	Gross earnings.	Expenses.	Net earnings.	Number making up ordinary crews.	Total wages paid during year.
Total for Mississippi valley.	1,114	210,771.89	\$10,539,251	7,316,545	29,405,046	10,858,894	\$16,337,533	\$12,600,342	\$3,737,191	15,996	\$5,338,862
Upper Mississippi:											
Passenger and freight	23	5,732.91	281,700	.....	518,816	285,676	463,872	380,375	83,497	576	143,333
Towboats	77	9,736.51	621,800	.....	3,428,548	.....	1,249,850	812,401	437,449	1,239	385,364
Ferryboats	24	2,144.39	170,200	.....	539,057	1,192,409	131,528	92,078	39,450	125	53,505
Harbor boats	25	994.26	62,250	.....	.....	.....	102,147	71,503	30,644	117	37,075
Miscellaneous	10	1,999.75	139,800	.....	.....	.....	47,389	47,389	.....	111	20,206
No traffic reported	29	4,370.39	209,619	.....	.....	.....	.....	.....	.....	.....	.....
Total	188	24,978.21	1,485,369	1,101,990	4,486,421	1,478,085	1,994,786	1,403,746	591,040	2,168	639,483
Saint Croix:											
Towboats	10	1,129.82	88,500	.....	846,016	304	154,597	83,481	71,116	159	41,601
Ferryboats	1	26.98	3,000	.....	800	12,000	1,485	1,050	435	2	700
Harbor boats	4	101.55	7,500	.....	.....	.....	13,102	9,172	3,930	15	5,287
Total	15	1,258.35	99,000	67,990	846,816	12,304	169,184	93,703	75,481	176	47,588
Chippewa:											
Towboats	1	108.00	7,000	12,000	325,477	4,441	18,244	9,844	8,400	16	5,046
Illinois:											
Passenger and freight	7	1,811.80	79,200	.....	180,264	21,768	133,764	112,321	21,443	162	35,661
Ferryboats	2	48.45	1,000	.....	.....	28,600	2,037	1,726	311	4	1,100
Total	9	1,860.25	80,200	83,436	180,264	50,368	135,801	114,047	21,754	166	36,761
Missouri, Osage, and Gasconade:											
Passenger and freight	15	2,458.85	70,300	.....	799,344	26,561	129,620	106,288	23,332	243	41,794
Towboats	10	573.37	41,700	.....	161,983	.....	62,357	50,417	11,940	70	24,995
Ferryboats	24	1,685.49	94,100	.....	158,035	249,975	102,493	72,772	29,721	104	47,352
No traffic reported	3	42.13	3,600	.....	.....	.....	.....	.....	.....	.....	.....
Total	52	4,759.84	209,700	159,239	1,119,362	276,536	294,470	229,477	64,993	417	114,141
Ohio:											
Passenger and freight	85	32,688.82	1,209,825	.....	2,314,548	1,191,732	2,168,215	1,850,248	317,967	2,559	688,407
Towboats	114	26,708.08	1,680,600	.....	5,211,119	.....	2,168,020	1,657,136	510,884	2,069	910,946
Ferryboats	34	10,918.00	350,250	.....	244,698	3,924,074	431,267	246,893	184,374	266	142,126
Harbor boats	48	4,275.11	301,000	.....	.....	.....	254,934	198,282	56,652	462	152,497
Miscellaneous	25	2,978.83	169,200	.....	.....	.....	48,218	48,218	.....	68	23,869
No traffic reported	54	7,466.78	388,302	.....	.....	.....	.....	.....	.....	.....	.....
Total	380	85,035.62	4,099,177	2,696,020	7,770,565	5,115,806	5,070,654	4,000,777	1,069,877	5,424	1,917,845
Allegheny:											
Passenger and freight	6	715.84	53,000	2,040	365,946	5,319	20,630	18,449	2,181	31	10,670
Monongahela:											
Passenger and freight	8	1,471.48	75,700	.....	151,725	130,537	130,664	107,179	23,485	81	45,448
Towboats	25	3,441.97	246,700	.....	3,143,207	.....	306,810	233,447	73,363	287	120,408
Ferryboats	3	263.39	15,000	.....	.....	130,850	11,238	10,017	1,221	12	7,485
Miscellaneous	12	1,057.31	82,200	.....	.....	.....	48,218	48,218	.....	42	22,680
Total	48	6,234.15	419,600	130,898	3,294,932	261,387	496,930	398,861	98,069	422	196,021
Muskingum:											
Passenger and freight	4	333.35	16,750	.....	10,281	37,681	47,571	35,254	12,317	67	17,305
Towboats	2	219.35	7,000	.....	.....	.....	7,361	4,915	2,446	11	3,406
Harbor boats	1	15.09	1,300	.....	.....	.....	550	420	130	3	240
Total	7	567.79	25,050	27,035	10,281	37,681	55,482	40,589	14,893	81	20,951
Little Kanawha:											
Passenger and freight	2	143.56	10,000	.....	2,968	9,451	24,471	12,075	12,396	18	4,682
Towboats	1	34.93	4,000	.....	112,639	.....	2,000	1,668	332	5	790
Harbor boats	1	25.64	3,000	.....	.....	.....	3,450	2,600	850	4	1,085
Miscellaneous	1	24.05	1,000	.....	.....	.....	1,000	1,000	.....	1	540
Total	5	228.18	18,000	14,740	115,657	9,451	30,921	17,343	13,578	28	7,097

a See page 13.

RIVERS OF THE MISSISSIPPI VALLEY.

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TABLE 19.—GENERAL ACCOUNT—RÉSUMÉ—Continued.

NUMBER, TONNAGE, VALUE, OPERATIONS, FINANCIAL ACCOUNT, EMPLOYÉS, AND WAGES PAID OF ALL STEAMERS, ETC.—Continued.

RIVERS.	EQUIPMENT.			TRAFFIC.			INCOME AND EXPENDITURE.			EMPLOYÉS.	
	Number.	Tonnage.	Value.	Miles traveled.	Freight moved. (Tons.)	Passengers carried.	Gross earnings.	Expenses.	Net earnings.	Number making up ordinary crews.	Total wages paid during year.
Great Kanawha:											
Passenger and freight	5	427.55	\$23,500	-----	112,838	53,599	\$46,339	\$36,288	\$10,051	62	\$19,410
Towboats	4	692.66	39,333	-----	1,032,364	-----	47,809	31,938	15,871	63	16,919
Ferryboats	2	102.47	8,000	-----	-----	38,525	13,283	6,965	6,318	8	3,420
Harbor boats	6	822.49	41,000	-----	-----	-----	82,575	61,486	21,089	72	23,070
Miscellaneous	2	58.78	3,500	-----	-----	-----	3,000	3,000	-----	5	2,366
No traffic reported	2	282.18	8,000	-----	-----	-----	-----	-----	-----	-----	-----
Total	21	2,386.13	123,333	59,680	1,145,202	92,124	193,006	139,677	53,329	210	65,185
Big Sandy:											
Passenger and freight	5	443.65	16,000	-----	286,483	11,000	62,075	46,572	15,503	99	30,485
Harbor boats	3	344.02	24,000	-----	-----	-----	32,843	23,307	9,536	42	13,440
Total	8	787.67	40,000	47,350	286,483	11,000	94,918	69,879	25,039	141	43,925
Kentucky:											
Passenger and freight	3	246.52	15,000	-----	53,047	9,550	40,910	23,145	17,765	66	12,220
Towboats	1	77.88	4,000	-----	203,903	-----	17,911	10,721	7,190	15	4,110
No traffic reported	1	49.91	2,000	-----	-----	-----	-----	-----	-----	-----	-----
Total	5	374.31	21,000	12,588	256,950	9,550	58,821	33,866	24,955	81	16,330
Green:											
Passenger and freight	5	316.68	13,500	10,300	819,278	11,200	31,889	27,154	4,735	43	5,416
Wabash:											
Passenger and freight	2	243.33	7,500	-----	93,178	180	42,320	22,140	20,180	50	13,020
No traffic reported	1	53.67	2,500	-----	-----	-----	-----	-----	-----	-----	-----
Total	3	297.00	10,000	12,700	93,178	180	42,320	22,140	20,180	50	13,020
Cumberland:											
Passenger and freight	13	2,631.48	100,800	-----	217,534	19,160	179,688	153,412	26,276	440	73,345
Towboats	4	304.09	8,500	-----	756,782	-----	25,948	17,527	8,421	25	11,085
Total	17	2,935.57	109,300	144,968	974,316	19,160	205,636	170,939	34,697	465	84,430
Tennessee:											
Passenger and freight	23	5,851.24	210,500	-----	219,170	27,185	331,345	289,699	41,646	609	140,537
Towboats	6	1,183.71	46,250	-----	689,908	-----	37,328	28,160	9,168	63	13,398
Ferryboats	2	259.67	3,000	-----	-----	903,100	32,133	13,034	19,099	15	10,800
No traffic reported	1	22.27	1,000	-----	-----	-----	-----	-----	-----	-----	-----
Total	32	7,316.89	260,750	420,894	909,078	930,285	400,806	330,893	69,913	687	164,735
Lower Mississippi:											
Passenger and freight	74	31,898.33	1,186,300	-----	2,985,399	518,267	3,040,334	2,742,406	297,928	2,968	1,032,012
Towboats	35	9,665.18	627,600	-----	1,221,346	-----	1,938,513	1,157,068	781,445	720	249,927
Ferryboats	45	2,831.74	392,200	-----	168,016	1,933,048	442,169	362,431	79,738	337	183,972
Harbor boats	53	12,403.80	588,300	-----	-----	-----	801,479	574,219	227,260	301	176,573
Miscellaneous	11	599.93	70,350	-----	-----	-----	13,815	13,815	-----	17	12,232
No traffic reported	47	5,077.09	287,622	-----	-----	-----	-----	-----	-----	-----	-----
Total	265	62,476.07	3,152,372	1,826,254	4,374,761	2,451,315	6,236,310	4,849,939	1,386,371	4,343	1,654,716
White:											
Passenger and freight	5	1,229.71	45,000	68,786	86,393	4,183	100,697	82,443	18,254	119	41,997
Arkansas:											
Passenger and freight	9	1,785.91	46,700	-----	1,662,717	2,651	57,199	44,881	12,318	141	27,753
Ferryboats	6	312.82	19,500	-----	1,100	62,065	29,184	11,668	17,516	20	6,216
Total	15	2,098.73	66,200	61,689	1,663,817	64,716	86,383	56,549	29,834	161	33,969
Yazoo:											
Passenger and freight	11	1,409.68	62,000	121,216	77,380	5,391	144,068	125,469	18,599	255	60,754
Washita:											
Passenger and freight	3	994.52	45,000	60,828	93,707	1,204	125,180	103,220	21,960	144	43,756
Red:											
Passenger and freight	9	1,968.88	80,700	172,800	105,145	7,208	324,736	257,092	67,644	323	113,349
Red River of the North:											
Freight	3	411.17	12,500	-----	3,637	-----	5,661	4,446	1,415	45	1,677
No traffic reported	1	22.65	1,500	-----	-----	-----	-----	-----	-----	-----	-----
Total	4	433.82	14,000	1,084	3,637	-----	5,661	4,246	1,415	45	1,677

STATISTICS OF TRANSPORTATION.

TABLE 20.—COMPARATIVE STATISTICS.

NUMBER, TONNAGE, AND VALUE OF STEAMERS AND UNRIGGED CRAFT OWNED ON THE RIVERS OF THE MISSISSIPPI VALLEY IN 1880 AND 1889, GIVEN BY LOCALITIES.

RIVERS.	Year.	TOTAL, ALL CRAFT.			STEAMERS.			UNRIGGED.		
		Number.	Tonnage.	Value.	Number.	Tonnage.	Value.	Number.	Tonnage.	Value.
Total Mississippi valley	1880	5,052	1,161,616.86	\$16,379,400	1,198	251,792.85	\$12,009,400	3,854	909,824.01	\$4,370,000
	1889	7,453	3,393,379.89	15,335,005	1,114	210,771.89	10,539,251	6,339	3,182,608.00	4,795,754
Upper Mississippi	1880	652	242,689.59	4,339,050	366	83,918.09	3,004,050	<i>a</i> 286	158,771.50	1,335,000
	1889	509	203,889.81	1,896,587	213	28,204.81	1,671,569	296	175,685.00	225,018
Ohio	1880	4,041	858,524.99	8,696,500	473	107,472.48	5,661,500	3,568	751,052.51	3,035,000
	1889	6,245	2,920,468.83	8,696,341	537	107,195.83	5,192,710	5,708	2,813,273.00	3,503,631
Lower Mississippi	1880	315	48,303.06	2,851,550	315	48,303.06	2,851,550			
	1889	580	247,957.59	4,476,472	308	70,177.59	3,451,272	272	177,780.00	1,025,200
Missouri, etc.	1880	44	12,099.22	492,300	44	12,099.22	492,300			
	1889	119	21,063.66	265,605	56	5,193.66	223,700	63	15,870.00	41,905

a Including all unrigged owned on both the Upper and Lower Mississippi.

TABLE 21.—COMPARATIVE STATISTICS.

NUMBER, TONNAGE, AND VALUE OF ALL STEAM VESSELS OWNED ON THE RIVERS OF THE MISSISSIPPI VALLEY IN 1880 AND 1889, GIVEN BY OCCUPATIONS.

CLASSES.	Year.	Number.	Tonnage.	Value.
Total, all classes.....	1880	1,198	251,792.85	\$12,009,400
	1889	1,114	210,771.89	10,539,251
Passenger and freight.....	1880	503	166,375.82	7,059,900
	1889	320	95,215.26	3,661,475
Ferry.....	1880	177	21,306.59	1,022,900
	1889	163	18,593.40	1,056,250
Towing and harbor.....	1880	477	63,224.95	3,800,500
	1889	431	72,857.51	4,451,333
Miscellaneous	1880	41	885.49	126,100
	1889	200	24,105.72	1,370,193

TABLE 22.—COMPARATIVE STATISTICS.

GROSS EARNINGS BY ALL CRAFT OPERATING ON THE RIVERS OF THE MISSISSIPPI VALLEY IN 1880 AND 1889, TOGETHER WITH THE AMOUNT PAID OUT IN WAGES DURING THOSE YEARS.

RIVERS.	Year.	Gross earnings.	Paid in wages.
Total Mississippi valley	1880	\$20,293,173	\$6,979,226
	1889	16,337,533	5,338,862
Upper Mississippi.....	1880	7,668,864	2,204,644
	1889	2,318,015	728,878
Ohio.....	1880	7,628,924	2,847,085
	1889	6,702,013	2,545,625
Lower Mississippi.....	1880	4,163,989	1,626,029
	1889	7,017,374	1,948,541
Missouri, etc	1880	826,396	301,468
	1889	300,131	115,818

TABLE 23.—COMPARATIVE STATISTICS.

NUMBER OF MEN CONSTITUTING TOTALS OF ORDINARY CREWS EMPLOYED ON ALL CRAFT OPERATING ON THE RIVERS OF THE MISSISSIPPI VALLEY IN 1880 AND 1889, TOGETHER WITH WAGES PAID, AND CALCULATED AVERAGES OF ANNUAL PAY, AND DECREASE OR INCREASE PER MAN, GIVEN BY LOCALITIES.

RIVERS.	Year.	Total number men ordinary crews.	Total wages paid.	Average annual wages per man.	Average annual increase in wages per man.	Average annual decrease in wages per man.
Total Mississippi valley.....	1880	23, 616	\$6, 979, 226	\$295. 53	-----	-----
	1889	15, 996	5, 338, 862	333. 76	\$38. 23	-----
Upper Mississippi.....	1880	7, 824	2, 204, 644	281. 78	-----	-----
	1889	2, 526	728, 878	288. 55	6. 77	-----
Ohio.....	1880	9, 090	2, 847, 085	313. 21	-----	-----
	1889	7, 663	2, 545, 625	332. 20	18. 99	-----
Lower Mississippi.....	1880	5, 655	1, 626, 029	287. 54	-----	-----
	1889	5, 345	1, 948, 541	364. 55	77. 01	-----
Missouri, etc.....	1880	1, 047	301, 468	287. 94	-----	-----
	1889	462	115, 818	250. 69	-----	\$37. 25

TABLE 24.—COMPARATIVE STATISTICS.

NUMBER OF TONS OF FREIGHT MOVED AND NUMBER OF PASSENGERS CARRIED BY ALL CRAFT OPERATING ON THE RIVERS OF THE MISSISSIPPI VALLEY IN 1880 AND 1889, GIVEN BY LOCALITIES.

RIVERS.	Year.	FREIGHT.			PASSENGER.		
		Total.	By steamers.	On barges.	Total.	Regular.	Ferry.
Total Mississippi valley.....	1880	18, 946, 522	13, 557, 884	5, 388, 638	6, 728, 067	1, 528, 083	5, 199, 984
	1889	29, 405, 046	10, 345, 504	19, 059, 542	10, 858, 894	2, 384, 248	8, 474, 646
Upper Mississippi.....	1880	3, 565, 338	698, 218	2, 867, 120	1, 299, 553	341, 371	958, 182
	1889	5, 838, 978	1, 194, 245	4, 644, 733	1, 545, 198	312, 189	1, 233, 009
Ohio.....	1880	11, 738, 909	9, 217, 391	2, 521, 518	3, 961, 798	960, 936	3, 000, 862
	1889	16, 041, 866	3, 806, 665	12, 235, 201	6, 503, 143	1, 506, 594	4, 996, 549
Lower Mississippi.....	1880	3, 576, 972	3, 576, 972	-----	1, 385, 357	212, 417	1, 172, 940
	1889	6, 401, 203	4, 387, 215	2, 013, 988	2, 534, 017	538, 904	1, 995, 113
Missouri, etc.....	1880	65, 303	65, 303	-----	81, 359	13, 359	68, 000
	1889	1, 122, 999	957, 379	165, 620	276, 536	26, 561	249, 975

STATISTICS OF TRANSPORTATION.

TABLE 25.—COMPARATIVE STATISTICS.

NUMBER AND TONNAGE OF ALL STEAMERS AND BARGES REGISTERED IN THE CUSTOMS DISTRICTS OF THE MISSISSIPPI VALLEY FOR THE YEARS 1880 TO 1889, INCLUSIVE. (a)

CUSTOMS DISTRICTS.	1880						1881					
	TOTAL.		STEAMERS.		BARGES.		TOTAL.		STEAMERS.		BARGES.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total	2,295	473,792.03	1,225	256,915.99	1,070	216,876.04	1,424	393,946.89	1,191	246,997.37	233	146,949.52
New Orleans, Louisiana	173	30,113.39	167	29,413.31	6	700.08	177	31,432.02	171	30,731.94	6	700.08
Natchez, Mississippi	3	191.83	3	191.83								
Vicksburg, Mississippi	29	3,436.49	27	2,963.32	2	473.17						
Memphis, Tennessee	66	10,779.65	66	10,779.65				* 11,302.58	65	11,302.58		
Nashville, Tennessee	26	3,621.37	26	3,621.37			29	4,599.08	29	4,599.08		
Louisville, Kentucky	53	17,749.68	53	17,749.68			58	17,539.28	58	17,539.28		
Saint Louis, Missouri	319	141,974.94	162	59,699.13	157	82,275.81	313	180,119.99	153	54,392.72	160	125,727.27
Burlington, Iowa	31	2,414.25	31	2,414.25			42	4,624.03	42	4,624.03		
Dubuque, Iowa	29	3,696.79	29	3,696.79			31	3,757.13	31	3,757.13		
Lacrosse, Wisconsin	40	6,227.86	39	6,200.61	1	27.25	45	6,626.74	44	6,599.49	1	27.25
Minnesota (b)	80	8,141.78	48	5,873.06	32	2,268.72	54	6,908.80	45	6,003.50	9	905.30
Galena, Illinois	25	2,267.41	25	2,267.41			23	2,119.97	23	2,119.97		
Cairo, Illinois	41	7,888.58	28	4,323.36	13	3,565.22	43	7,194.76	31	3,849.03	12	3,345.73
Evansville, Indiana	67	6,403.87	66	5,708.97	1	694.90	60	5,564.53	60	5,564.53		
Cincinnati, Ohio	174	50,551.95	116	39,931.44	58	10,620.51	110	38,628.88	110	38,628.88		
Wheeling, West Virginia	432	43,419.05	142	16,711.88	290	26,707.17	137	16,056.20	137	16,056.20		
Pittsburg, Pennsylvania	678	129,025.97	168	39,482.76	510	89,543.21	205	50,752.58	160	34,508.69	45	16,243.89
Omaha, Nebraska	29	5,887.17	29	5,887.17			32	6,720.32	32	6,720.32		

CUSTOMS DISTRICTS.	1882						1883					
	TOTAL.		STEAMERS.		BARGES.		TOTAL.		STEAMERS.		BARGES.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total	1,438	389,644.39	1,226	249,210.10	212	140,434.29	1,312	361,047.68	1,163	243,317.19	149	117,730.49
New Orleans, Louisiana	177	28,306.53	172	28,075.83	5	230.70	132	21,199.21	132	21,199.21		
Natchez, Mississippi	5	254.33	5	254.33			4	239.87	4	239.87		
Vicksburg, Mississippi	3	44.67	3	44.67			28	3,583.33	28	3,583.33		
Memphis, Tennessee	65	10,426.37	65	10,426.37			73	11,503.30	73	11,503.30		
Nashville, Tennessee	15	2,527.93	15	2,527.93			18	3,876.32	18	3,876.32		
Chattanooga, Tennessee	13	1,567.44	13	1,567.44			17	1,936.11	17	1,936.11		
Louisville, Kentucky	60	17,938.08	60	17,938.08			57	18,118.07	57	18,118.07		
Saint Louis, Missouri	308	178,598.35	163	57,933.02	145	120,665.33	295	178,276.29	160	62,349.88	135	115,926.41
Kansas city, Missouri							1	112.57	1	112.57		
Burlington, Iowa	43	4,305.05	43	4,305.05			45	4,815.52	45	4,815.52		
Dubuque, Iowa	24	3,369.81	24	3,369.81			27	4,719.56	27	4,719.56		
Lacrosse, Wisconsin	46	6,436.36	45	6,409.11	1	27.25	35	3,027.59	35	3,027.59		
Minnesota	58	7,473.66	48	6,452.21	10	1,021.45	59	7,861.19	46	6,328.49	13	1,532.70
Galena, Illinois	23	2,518.37	23	2,518.37			25	2,771.63	25	2,771.63		
Cairo, Illinois	36	5,744.58	30	3,498.91	6	2,245.67	32	3,940.42	31	3,669.04	1	271.38
Evansville, Indiana	58	5,842.88	58	5,842.88			64	6,051.50	64	6,051.50		
Cincinnati, Ohio	114	37,486.94	114	37,486.94			140	35,013.12	110	35,013.12		
Wheeling, West Virginia	144	17,329.99	144	17,329.99			110	14,704.74	110	14,704.74		
Pittsburg, Pennsylvania	214	52,710.55	169	36,466.66	45	16,243.89	157	34,803.49	157	34,803.49		
Omaha, Nebraska	32	6,762.50	32	6,762.50			23	4,493.85	23	4,493.85		

a Compiled from reports furnished by commissioner of navigation.

b Comprising the ports of Saint Vincent and Saint Paul.

RIVERS OF THE MISSISSIPPI VALLEY.

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TABLE 25.—COMPARATIVE STATISTICS—Continued.

NUMBER AND TONNAGE OF ALL STEAMERS AND BARGES REGISTERED IN THE CUSTOMS DISTRICTS OF THE MISSISSIPPI VALLEY FOR THE YEARS 1880 TO 1889, INCLUSIVE—Continued.

CUSTOMS DISTRICTS.	1884						1885					
	TOTAL.		STEAMERS.		BARGES.		TOTAL.		STEAMERS.		BARGES.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total	1,302	356,263.61	1,157	241,007.35	145	115,256.26	1,289	346,054.19	1,149	231,675.84	140	114,378.35
New Orleans, Louisiana...	138	20,834.85	138	20,834.85			127	20,147.83	127	20,147.83		
Natchez, Mississippi.....	4	452.25	4	452.25			3	303.23	3	303.23		
Vicksburg, Mississippi.....	30	3,298.74	30	3,298.74			32	3,637.74	32	3,637.74		
Memphis, Tennessee.....	73	14,977.04	73	14,977.04			72	13,807.31	72	13,807.31		
Nashville, Tennessee.....	22	4,020.17	22	4,020.17			16	3,562.51	16	3,562.51		
Chattanooga, Tennessee...	16	2,771.84	16	2,771.84			18	3,052.59	18	3,052.59		
Paducah, Kentucky.....	9	651.62	9	651.62			18	1,412.84	18	1,412.84		
Louisville, Kentucky.....	53	18,175.15	53	18,175.15			56	15,902.25	56	15,902.25		
Saint Louis, Missouri.....	268	168,824.60	136	55,345.60	132	113,479.00	269	165,924.62	141	53,052.15	128	112,872.47
Kansas city, Missouri.....	11	1,129.20	11	1,129.20			11	1,125.20	11	1,125.20		
Saint Joseph, Missouri.....							3	297.06	3	297.06		
Burlington, Iowa.....	46	4,984.63	46	4,984.63			45	4,828.52	45	4,828.52		
Dubuque, Iowa.....	22	4,368.02	22	4,368.02			23	4,299.70	23	4,299.70		
Omaha, Nebraska.....	19	3,787.46	19	3,787.46			21	4,013.28	21	4,013.28		
Minnesota.....	60	8,271.10	48	6,765.22	12	1,505.88	56	7,416.37	44	5,910.49	12	1,505.88
Lacrosse, Wisconsin.....	43	3,626.31	43	3,626.31			40	3,666.65	40	3,666.65		
Galena, Illinois.....	23	2,319.23	23	2,319.23			24	2,527.21	24	2,527.21		
Cairo, Illinois.....	25	4,269.91	24	3,998.53	1	271.38	18	3,508.36	18	3,508.36		
Evansville, Indiana.....	67	8,710.09	67	8,710.09			60	8,727.89	60	8,727.89		
Cincinnati, Ohio.....	101	31,610.42	101	31,610.42			110	32,746.76	110	32,746.76		
Wheeling, West Virginia...	109	14,583.83	109	14,583.83			112	13,479.07	112	13,479.07		
Pittsburg, Pennsylvania...	163	34,597.15	163	34,597.15			155	31,667.20	155	31,667.20		

CUSTOMS DISTRICTS.	1886						1887					
	TOTAL.		STEAMERS.		BARGES.		TOTAL.		STEAMERS.		BARGES.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total	1,247	334,810.06	1,105	221,088.76	142	113,721.30	1,292	327,313.55	1,144	217,941.56	148	109,371.99
New Orleans, Louisiana...	125	20,395.66	125	20,395.66			129	19,808.80	129	19,808.80		
Natchez, Mississippi.....	3	303.23	3	303.23			3	303.23	3	303.23		
Vicksburg, Mississippi.....	30	2,555.51	30	2,555.51			30	2,723.39	30	2,723.39		
Memphis, Tennessee.....	70	13,774.98	70	13,774.98			82	14,901.67	82	14,901.67		
Nashville, Tennessee.....	19	4,088.45	19	4,088.45			17	3,469.49	17	3,469.49		
Chattanooga, Tennessee...	15	2,665.32	15	2,665.32			17	3,546.92	17	3,546.92		
Paducah, Kentucky.....	23	3,496.24	23	3,496.24			29	4,270.03	29	4,270.03		
Louisville, Kentucky.....	57	14,997.73	57	14,997.73			55	12,176.58	55	12,176.58		
Saint Louis, Missouri.....	252	161,478.54	129	49,738.90	123	111,739.64	250	153,829.16	132	47,153.20	118	106,675.96
Kansas city, Missouri.....	14	1,185.35	13	1,159.54	1	25.81	13	1,164.66	13	1,164.66		
Saint Joseph, Missouri.....	4	687.55	4	687.55			6	746.57	6	746.57		
Omaha, Nebraska.....	22	3,636.56	22	3,636.56			19	2,934.96	19	2,934.96		
Burlington, Iowa.....	49	5,250.75	45	4,908.84	4	341.91	52	5,182.35	43	4,656.02	9	526.33
Dubuque, Iowa.....	24	4,564.89	24	4,564.89			22	4,370.74	22	4,370.74		
Minnesota.....	59	8,010.15	46	6,431.21	13	1,578.94	65	8,272.87	49	6,504.93	16	1,767.94
Lacrosse, Wisconsin.....	41	3,383.25	41	3,383.25			48	3,932.78	45	3,655.02	3	277.76
Galena, Illinois.....	24	2,577.81	23	2,542.81	1	35.00	28	3,170.85	26	3,046.85	2	124.00
Evansville, Indiana.....	55	8,198.62	55	8,198.62			53	7,309.70	53	7,309.70		
Cincinnati, Ohio.....	106	31,594.03	106	31,594.03			107	30,535.73	107	30,535.73		
Wheeling, West Virginia...	101	10,475.45	101	10,475.45			109	11,951.21	109	11,951.21		
Pittsburg, Pennsylvania...	154	31,489.99	154	31,489.99			158	32,711.86	158	32,711.86		

STATISTICS OF TRANSPORTATION.

TABLE 25.—COMPARATIVE STATISTICS—Continued.

NUMBER AND TONNAGE OF ALL STEAMERS AND BARGES REGISTERED IN THE CUSTOMS DISTRICTS OF THE MISSISSIPPI VALLEY FOR THE YEARS 1880 TO 1889, INCLUSIVE—Continued.

CUSTOMS DISTRICTS.	1888						1889					
	TOTAL.		STEAMERS.		BARGES.		TOTAL.		STEAMERS.		BARGES.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
Total	1,253	304,990.93	1,122	214,035.55	131	90,955.38	1,246	299,335.54	1,114	209,826.07	132	89,509.47
New Orleans, Louisiana.....	127	19,447.03	127	19,447.03			126	19,248.58	126	19,248.58		
Natchez, Mississippi.....	4	592.35	4	592.35			4	592.35	4	592.35		
Vicksburg, Mississippi.....	30	2,932.28	30	2,932.28			30	2,875.99	30	2,875.99		
Memphis, Tennessee.....	66	11,167.28	66	11,167.28			71	12,113.76	71	12,113.76		
Chattanooga, Tennessee.....	20	4,048.30	20	4,048.30			22	3,906.09	22	3,906.09		
Paducah, Kentucky.....	42	6,555.71	42	6,555.71			53	8,781.24	53	8,781.24		
Louisville, Kentucky.....	45	11,024.75	45	11,024.75			52	11,937.92	52	11,937.92		
Saint Louis, Missouri.....	219	134,103.07	123	46,210.35	96	87,892.72	208	129,249.39	115	42,827.04	93	86,422.35
Kansas city, Missouri.....	16	1,381.63	13	1,185.00	3	196.63	16	1,781.35	16	1,781.35		
Saint Joseph, Missouri.....	6	368.72	6	368.72			6	340.53	6	340.53		
Omaha, Nebraska.....	19	2,687.46	19	2,687.46			13	1,329.55	13	1,329.55		
Burlington, Iowa.....	51	4,987.01	42	4,506.75	9	480.26	56	5,718.95	43	5,059.39	13	659.56
Dubuque, Iowa.....	28	5,100.10	27	5,050.44	1	49.66	29	6,408.82	28	6,355.26	1	53.56
Minnesota.....	61	7,758.76	47	5,986.17	14	1,772.59	61	6,691.30	46	5,213.56	15	1,477.74
Lacrosse, Wisconsin.....	50	4,191.55	45	3,768.56	5	422.99	54	4,639.76	47	3,884.03	7	755.73
Galena, Illinois.....	29	3,243.23	26	3,102.70	3	140.53	30	3,270.13	27	3,129.60	3	140.53
Evansville, Indiana.....	60	8,166.47	60	8,166.47			54	6,950.76	54	6,950.76		
Cincinnati, Ohio.....	116	32,751.31	116	32,751.31			115	31,406.87	115	31,406.87		
Wheeling, West Virginia.....	109	11,611.52	109	11,611.52			94	9,768.97	94	9,768.97		
Pittsburg, Pennsylvania.....	155	32,872.40	155	32,872.40			152	32,263.23	152	32,263.23		

RECAPITULATION FOR THE 10 YEARS.

YEARS.	TOTAL.		STEAMERS.		BARGES.	
	Number.	Tonnage.	Number.	Tonnage.	Number.	Tonnage.
1880.....	2,295	473,792.03	1,225	256,915.99	1,070	216,876.04
1881.....	1,424	393,946.89	1,191	246,997.37	233	146,949.52
1882.....	1,438	389,644.39	1,226	249,210.10	212	140,434.29
1883.....	1,312	361,047.68	1,163	243,317.19	149	117,730.49
1884.....	1,302	356,263.61	1,157	241,007.35	145	115,256.26
1885.....	1,289	346,054.19	1,149	231,675.84	140	114,378.35
1886.....	1,247	334,810.06	1,105	221,088.76	142	113,721.30
1887.....	1,292	327,313.55	1,144	217,941.56	148	109,371.99
1888.....	1,253	304,990.93	1,122	214,035.55	131	90,955.38
1889.....	1,246	299,335.54	1,114	209,826.07	132	89,509.47

TABLE 26.—NUMBER, AGGREGATE TONNAGE, AND AVERAGE VESSEL TONNAGE OF ALL STEAMERS REGISTERED AT THE CUSTOMS DISTRICTS OF THE MISSISSIPPI VALLEY IN THE YEARS 1880 TO 1889, INCLUSIVE. (a)

CUSTOMS DISTRICTS.	1880			1881			1882			1883			1884		
	Num-ber.	Tonnage.	Aver-age.	Num-ber.	Tonnage.	Aver-age.	Num-ber.	Tonnage.	Aver-age.	Num-ber.	Tonnage.	Aver-age.	Num-ber.	Tonnage.	Aver-age.
New Orleans, Louisiana	167	29,413	176	171	30,732	180	172	28,076	163	132	21,199	161	138	20,835	151
Natchez, Mississippi	3	192	64				5	254	51	4	240	60	4	452	113
Vicksburg, Mississippi	27	2,963	110				3	45	15	28	3,583	128	30	3,299	110
Memphis, Tennessee	66	10,780	163	65	11,303	174	65	10,426	160	73	11,503	158	73	14,977	205
Nashville, Tennessee	20	3,621	139	29	4,599	159	15	2,528	169	18	3,876	215	22	4,020	183
Chattanooga, Tennessee							13	1,567	121	17	1,936	114	16	2,772	173
Louisville, Kentucky	53	17,750	335	58	17,539	302	60	17,938	299	57	18,118	318	53	18,175	343
Paducah, Kentucky													9	652	72
Saint Louis, Missouri	162	59,699	369	153	54,393	356	163	57,933	355	160	62,350	390	136	55,346	407
Kansas city, Missouri										1	113	113	11	1,129	103
Saint Joseph, Missouri															
Burlington, Iowa	31	2,414	78	42	4,624	110	43	4,305	100	45	4,816	107	46	4,985	108
Dubuque, Iowa	29	3,697	127	31	3,757	121	24	3,370	140	27	4,720	175	22	4,368	199
Lacrosse, Wisconsin	39	6,201	159	44	6,599	150	45	6,409	142	35	3,028	87	43	3,626	84
Minnesota (b)	48	5,873	122	45	6,004	133	48	6,452	134	46	6,328	138	48	6,765	141
Galena, Illinois	25	2,267	91	23	2,120	92	23	2,518	109	25	2,772	111	23	2,319	101
Cairo, Illinois	28	4,323	154	31	3,849	124	30	3,499	117	31	3,669	118	24	3,999	167
Evansville, Indiana	66	5,709	87	60	5,565	93	58	5,843	101	64	6,052	95	67	8,710	130
Cincinnati, Ohio	116	39,931	344	110	38,629	351	114	37,487	329	110	35,013	318	101	31,610	313
Wheeling, West Virginia	142	16,712	118	137	16,056	117	144	17,330	120	110	14,705	134	109	14,584	134
Pittsburg, Pennsylvania	168	39,483	235	160	34,509	216	169	36,467	216	157	34,803	222	163	34,597	212
Omaha, Nebraska	29	5,887	203	32	6,720	210	32	6,763	211	23	4,494	195	19	3,787	199

CUSTOMS DISTRICTS.	1885			1886			1887			1888			1889		
	Num-ber.	Tonnage.	Aver-age.	Num-ber.	Tonnage.	Aver-age.	Num-ber.	Tonnage.	Aver-age.	Num-ber.	Tonnage.	Aver-age.	Num-ber.	Tonnage.	Aver-age.
New Orleans, Louisiana	127	20,148	159	125	20,396	163	129	19,809	154	127	19,447	153	126	19,249	153
Natchez, Mississippi	3	303	101	3	303	101	3	303	101	4	592	148	4	592	148
Vicksburg, Mississippi	32	3,638	114	30	2,556	85	30	2,723	91	30	2,932	98	30	2,876	96
Memphis, Tennessee	72	13,807	192	70	13,775	197	82	14,902	182	66	11,167	169	71	12,114	171
Nashville, Tennessee	16	3,563	223	19	4,088	215	17	3,469	204						
Chattanooga, Tennessee	18	3,053	170	15	2,665	178	17	3,547	209	20	4,048	202	22	3,966	180
Louisville, Kentucky	56	15,902	284	57	14,998	263	55	12,177	221	45	11,025	245	52	11,938	230
Paducah, Kentucky	18	1,413	79	23	3,496	152	29	4,270	147	42	6,556	156	53	8,781	166
Saint Louis, Missouri	141	53,052	376	129	49,739	386	132	47,153	357	123	46,210	376	115	42,827	372
Kansas city, Missouri	11	1,125	102	13	1,160	89	13	1,165	90	13	1,185	91	16	1,781	111
Saint Joseph, Missouri	3	297	99	4	688	172	6	747	125	6	369	62	6	341	57
Burlington, Iowa	45	4,829	107	45	4,909	109	43	4,656	108	42	4,507	107	43	5,059	118
Dubuque, Iowa	23	4,300	187	24	4,565	190	22	4,371	199	27	5,050	187	28	6,355	227
Lacrosse, Wisconsin	40	3,667	92	41	3,383	83	45	3,655	81	45	3,769	84	47	3,884	83
Minnesota	44	5,910	134	46	6,431	140	49	6,505	133	47	5,986	127	46	5,214	113
Galena, Illinois	24	2,527	105	23	2,543	111	26	3,047	117	26	3,103	119	27	3,130	116
Cairo, Illinois	18	3,508	195												
Evansville, Indiana	60	8,728	145	55	8,199	149	53	7,310	138	60	8,166	136	54	6,951	129
Cincinnati, Ohio	110	32,747	298	106	31,594	298	107	30,536	285	116	32,751	282	115	31,407	273
Wheeling, West Virginia	112	13,479	120	101	10,475	104	109	11,951	110	109	11,612	107	94	9,769	104
Pittsburg, Pennsylvania	155	31,667	204	154	31,490	204	158	32,712	207	155	32,872	212	152	32,263	212
Omaha, Nebraska	21	4,013	191	22	3,637	165	19	2,935	154	19	2,687	141	13	1,330	102

a Compiled from information furnished by commissioner of navigation.

b Comprising the ports of Saint Vincent and Saint Paul.

STATISTICS OF TRANSPORTATION.

TABLE 27.—AVERAGE ANNUAL NUMBER OF STEAMERS AND AVERAGE ANNUAL TONNAGE REGISTERED AT THE CUSTOMS DISTRICTS OF THE MISSISSIPPI VALLEY IN THE YEARS 1880 TO 1889, INCLUSIVE, TOGETHER WITH THE INDICATED YEARS OF HIGHEST, LOWEST, AND MEAN REGISTRATION. (a)

CUSTOMS DISTRICTS.	Annual average number of vessels registered.	HIGHEST ABOVE AVERAGE.		LOWEST BELOW AVERAGE.		CLOSEST TO AVERAGE.		Fluctuation.	Annual average registered tonnage.	HIGHEST ABOVE AVERAGE.		LOWEST BELOW AVERAGE.		CLOSEST TO AVERAGE.		Fluctuation.
		Year.	Number.	Year.	Number.	Year.	Number.			Year.	Number of tons.	Year.	Number of tons.	Year.	Number of tons.	
New Orleans, Louisiana.....	141.40	1882	172	1886	125	1884	138	47	22,930.40	1881	30,732	1889	19,249	1883	21,199	11,483
Natchez, Mississippi.....	3.67	1882	5	1880	3	1883	4	2	359.11	1888	592	1880	192	1885	303	400
Vicksburg, Mississippi.....	26.67	1885	32	1882	3	1880	27	29	2,735.00	1885	3,638	1886	2,556	1887	2,723	1,082
Memphis, Tennessee.....	70.30	1887	82	1881	65	1886	70	17	12,475.40	1884	14,977	1882	10,426	1889	12,114	4,551
Nashville, Tennessee.....	20.25	1881	29	1882	15	1886	19	14	3,720.50	1881	4,599	1882	2,528	1880	3,621	2,071
Chattanooga, Tennessee.....	17.25	1889	22	1882	13	1883	17	9	2,944.25	1888	4,048	1882	1,567	1885	3,053	2,481
Louisville, Kentucky.....	54.60	1882	60	1888	45	1887	55	15	15,556.00	1884	18,175	1888	11,025	1885	15,902	7,150
Paducah, Kentucky.....	29.00	1889	53	1884	9	1887	29	44	4,194.67	1889	8,781	1884	652	1887	4,270	8,129
Saint Louis, Missouri.....	141.40	1882	163	1889	115	1885	141	48	52,870.20	1883	62,350	1889	42,827	1885	53,052	19,523
Kansas city, Missouri.....	11.14	1889	16	1883	1	1884	11	15	1,094.00	1889	1,781	1883	113	1885	1,125	1,668
Saint Joseph, Missouri.....	5.00	1887	6	1885	3	1887	6	3	488.40	1887	747	1885	297	1888	369	450
Burlington, Iowa.....	42.50	1884	46	1880	31	1881	42	15	4,510.40	1889	5,059	1880	2,414	1888	4,507	2,645
Dubuque, Iowa.....	25.70	1881	31	1884	22	1883	27	9	4,455.30	1889	6,355	1882	3,370	1887	4,371	2,985
Lacrosse, Wisconsin.....	42.40	1889	47	1883	35	1884	43	12	4,422.10	1881	6,599	1883	3,028	1889	3,884	3,571
Minnesota (b).....	46.70	1887	49	1885	44	1888	47	5	6,146.80	1884	6,765	1889	5,214	1881	6,004	1,551
Galena, Illinois.....	24.50	1889	27	1881	23	1885	24	4	2,634.60	1889	3,130	1881	2,120	1886	2,543	1,010
Cairo, Illinois.....	27.00	1881	31	1885	18	1880	28	13	3,807.83	1880	4,323	1882	3,499	1881	3,849	824
Evansville, Indiana.....	59.70	1884	67	1887	53	1881	60	14	7,123.30	1885	8,728	1881	5,565	1889	6,951	3,163
Cincinnati, Ohio.....	110.50	1880	116	1884	101	1881	110	15	34,170.50	1880	39,931	1887	30,536	1883	35,013	9,395
Wheeling, West Virginia.....	116.70	1882	144	1889	94	1885	112	50	13,667.30	1882	17,330	1889	9,769	1885	13,479	7,561
Pittsburg, Pennsylvania.....	159.10	1882	169	1889	152	1881	160	17	34,086.30	1880	39,483	1886	31,490	1881	34,509	7,993
Omaha, Nebraska.....	22.90	1881	32	1889	13	1883	23	19	4,225.30	1882	6,763	1889	1,330	1885	4,013	5,433

a Compiled from information furnished by commissioner of navigation.

b Comprising ports of Saint Vincent and Saint Paul.

RIVERS OF THE MISSISSIPPI VALLEY.

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TABLE 28.—COMPARATIVE STATISTICS.

NUMBER AND TONNAGE OF ALL STEAMERS AND BARGES BUILT IN THE CUSTOMS DISTRICTS OF THE MISSISSIPPI VALLEY DURING THE YEARS 1880 TO 1889, INCLUSIVE, TOGETHER WITH DATA SHOWING THE NUMBER AND TONNAGE OF SIDE-WHEEL STEAMERS, STERN-WHEEL STEAMERS, AND PROPELLERS BUILT DURING EACH YEAR AT EACH PORT. (a)

1880.

CUSTOMS DISTRICTS.	CLASS.						METHOD OF STEAMERS' PROPULSION.							
	Total.		Steamers.		Barges.		Total.		Side-wheel.		Stern-wheel.		Propeller.	
	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.
Total	135	32,791.31	117	23,930.92	18	8,860.39	117	23,930.92	30	11,449.60	75	11,791.60	12	689.72
New Orleans, Louisiana	7	448.09	7	448.09			7	448.09			2	86.51	5	361.58
Memphis, Tennessee	5	434.50	5	434.50			5	434.50			5	434.50		
Nashville, Tennessee	4	390.36	4	390.36			4	390.36			4	390.36		
Louisville, Kentucky	21	8,953.93	17	5,302.11	4	3,651.82	17	5,302.11	4	2,186.02	12	3,069.69	1	46.40
Saint Louis, Missouri	22	3,755.27	18	2,023.52	4	1,731.75	18	2,023.52	10	1,647.88	8	375.64		
Dubuque, Iowa	1	456.96	1	456.96			1	456.96			1	456.96		
Burlington, Iowa	3	155.61	3	155.61			3	155.61			2	146.60	1	9.01
Omaha, Nebraska	1	78.08	1	78.08			1	78.08			1	78.08		
Lacrosse, Wisconsin	4	277.70	4	277.70			4	277.70			4	277.70		
Minnesota (b)	7	652.59	6	581.03	1	71.56	6	581.03			5	558.11	1	22.92
Cairo, Illinois	2	1,513.14	2	1,513.14			2	1,513.14	1	1,477.27	1	35.87		
Galena, Illinois	1	16.34	1	16.34			1	16.34	1	16.34				
Evansville, Indiana	8	355.96	8	355.96			8	355.96			6	201.04	2	154.92
Cincinnati, Ohio	24	7,883.67	18	6,484.08	6	1,399.59	18	6,484.08	6	3,902.59	12	2,581.49		
Wheeling, West Virginia	12	1,083.70	12	1,083.70			12	1,083.70	3	334.92	7	653.89	2	94.89
Pittsburg, Pennsylvania	13	6,335.41	10	4,329.74	3	2,005.67	10	4,329.74	5	1,884.58	5	2,445.16		

1881.

Total	182	81,188.88	129	24,587.06	53	56,601.82	129	24,587.06	24	6,925.70	82	15,435.70	23	2,225.66
New Orleans, Louisiana	6	1,252.54	6	1,252.54			6	1,252.54	3	1,096.01			3	156.53
Memphis, Tennessee	8	945.15	8	945.15			8	945.15			7	903.18	1	41.97
Nashville, Tennessee	5	363.75	5	363.75			5	363.75			5	363.75		
Louisville, Kentucky	28	15,398.79	21	7,464.93	7	7,933.86	21	7,464.93	10	3,315.14	8	3,418.87	3	730.92
Saint Louis, Missouri	42	34,019.09	13	2,253.95	29	31,765.14	13	2,253.95	6	1,315.47	7	938.48		
Dubuque, Iowa	2	365.74	2	365.74			2	365.74			2	365.74		
Burlington, Iowa	2	219.20	2	219.20			2	219.20			1	178.82	1	40.38
Omaha, Nebraska	2	87.16	2	87.16			2	87.16			2	87.16		
Minnesota	4	418.35	4	418.35			4	418.35	1	237.09	2	150.71	1	30.55
Lacrosse, Wisconsin	3	100.11	3	100.11			3	100.11	2	83.20	1	16.91		
Cairo, Illinois	3	1,222.60	2	64.10	1	1,158.50	2	64.10			1	48.26	1	15.84
Galena, Illinois	1	10.30	1	10.30			1	10.30					1	10.30
Evansville, Indiana	4	346.46	4	346.46			4	346.46			2	227.47	2	118.99
Cincinnati, Ohio	29	15,625.75	17	4,209.93	12	11,415.82	17	4,209.93	1	555.50	10	2,863.21	6	791.22
Wheeling, West Virginia	17	4,075.01	15	2,057.19	2	2,017.82	15	2,057.19			11	1,768.23	4	288.96
Pittsburg, Pennsylvania	26	6,738.88	24	4,428.20	2	2,310.68	24	4,428.20	1	323.29	23	4,104.91		

1882.

Total	152	35,816.95	134	24,671.90	18	11,145.05	134	24,671.90	12	6,576.18	100	17,123.97	22	971.75
New Orleans, Louisiana	7	337.35	7	337.35			7	337.35	1	23.61	1	149.91	5	163.83
Memphis, Tennessee	6	249.85	6	249.85			6	249.85	1	8.99	3	199.52	2	41.34
Nashville, Tennessee	2	83.13	2	83.13			2	83.13	1	24.39	1	58.74		
Chattanooga, Tennessee	1	153.90	1	153.90			1	153.90			1	153.90		
Louisville, Kentucky	24	15,176.07	18	8,429.81	6	6,746.26	18	8,429.81	5	6,001.47	13	2,428.34		
Saint Louis, Missouri	20	3,281.81	11	1,439.50	9	1,842.31	11	1,439.50			9	1,264.92	2	174.58
Dubuque, Iowa	1	191.55	1	191.55			1	191.55			1	191.55		
Burlington, Iowa	2	253.62	2	253.62			2	253.62			1	234.16	1	19.46
Omaha, Nebraska	1	33.06	1	33.06			1	33.06					1	33.06
Lacrosse, Wisconsin	4	320.97	4	320.97			4	320.97			4	320.97		
Minnesota	4	489.43	3	373.28	1	116.15	3	373.28			3	373.28		
Cairo, Illinois	5	531.36	5	531.36			5	531.36			1	168.87	4	362.49
Galena, Illinois	4	468.64	4	468.64			4	468.64			4	468.64		
Evansville, Indiana	6	336.92	6	336.92			6	336.92	1	9.59	3	254.19	2	73.14
Cincinnati, Ohio	20	5,504.33	18	3,064.00	2	2,440.33	18	3,064.00	3	508.13	13	2,488.66	2	67.21
Wheeling, West Virginia	18	1,981.16	18	1,981.16			18	1,981.16			18	1,981.16		
Pittsburg, Pennsylvania	27	6,423.80	27	6,423.80			27	6,423.80			21	6,387.16	3	36.64

a Compiled from information furnished by commissioner of navigation.

b Comprising ports of Saint Vincent and Saint Paul.

STATISTICS OF TRANSPORTATION.

TABLE 28.—COMPARATIVE STATISTICS—Continued.

NUMBER AND TONNAGE OF ALL STEAMERS AND BARGES BUILT IN THE CUSTOMS DISTRICTS OF THE MISSISSIPPI VALLEY DURING THE YEARS 1880 TO 1889, INCLUSIVE, ETC.—Continued.

1883.

CUSTOMS DISTRICTS.	CLASS.						METHOD OF STEAMERS' PROPULSION.							
	Total.		Steamers.		Barges.		Total.		Side-wheel.		Stern-wheel.		Propeller.	
	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.
Total	125	26, 442.92	116	20, 879.07	9	5, 563.85	116	20, 879.07	18	6, 388.03	76	12, 890.00	22	1, 601.04
New Orleans, Louisiana.....	8	482.22	8	482.22	—	—	8	482.22	1	155.58	4	238.89	3	87.75
Memphis, Tennessee.....	10	582.04	10	582.04	—	—	10	582.04	3	283.39	1	27.97	—	270.68
Nashville, Tennessee.....	3	224.10	3	224.10	—	—	3	224.10	2	154.83	1	69.27	—	—
Chattanooga, Tennessee.....	3	448.29	3	448.29	—	—	3	448.29	—	—	3	448.29	—	—
Louisville, Kentucky.....	22	11, 629.74	18	7, 946.57	4	3, 683.17	18	7, 946.57	2	1, 959.23	11	5, 215.87	5	771.47
Saint Louis, Missouri.....	7	1, 538.57	—	1, 343.76	1	194.81	6	1, 343.76	2	914.61	2	313.81	2	115.34
Burlington, Iowa.....	4	289.74	4	289.74	—	—	4	289.74	—	—	3	246.50	1	43.24
Dubuque, Iowa.....	2	231.06	2	231.06	—	—	2	231.06	—	—	—	—	—	231.06
Omaha, Nebraska.....	3	221.68	3	221.68	—	—	3	221.68	—	—	3	221.68	—	—
Minnesota.....	8	880.23	5	368.98	3	511.25	5	368.98	1	35.87	2	277.22	2	55.89
Cairo, Illinois.....	3	242.74	3	242.74	—	—	3	242.74	—	—	3	242.74	—	—
Galena, Illinois.....	1	148.48	1	148.48	—	—	1	148.48	—	—	1	148.48	—	—
Evansville, Indiana.....	8	372.21	8	372.21	—	—	8	372.21	2	74.08	6	298.13	—	—
Cincinnati, Ohio.....	15	4, 026.27	14	2, 851.65	1	1, 174.62	14	2, 851.65	2	251.13	11	2, 574.91	1	25.61
Wheeling, West Virginia.....	22	2, 085.30	22	2, 085.30	—	—	22	2, 085.30	1	196.21	21	1, 889.09	—	—
Pittsburg, Pennsylvania.....	6	3, 040.25	6	3, 040.25	—	—	6	3, 040.25	2	2, 363.10	4	677.15	—	—

1884.

Total	93	16, 664.32	91	16, 219.44	2	444.88	91	16, 219.44	12	3, 786.24	70	12, 075.66	9	357.54
New Orleans, Louisiana.....	6	504.19	6	504.19	—	—	6	504.19	—	—	1	218.01	5	286.18
Vicksburg, Mississippi.....	1	110.34	1	110.34	—	—	1	110.34	—	—	1	110.34	—	—
Memphis, Tennessee.....	4	522.44	4	522.44	—	—	4	522.44	—	—	4	522.44	—	—
Nashville, Tennessee.....	2	384.93	2	384.93	—	—	2	384.93	—	—	2	384.93	—	—
Chattanooga, Tennessee.....	1	32.72	1	32.72	—	—	1	32.72	—	—	1	32.72	—	—
Louisville, Kentucky.....	15	6, 105.72	15	6, 105.72	—	—	15	6, 105.72	3	2, 677.31	12	3, 428.41	—	—
Saint Louis, Missouri.....	7	910.88	5	466.00	2	444.88	5	466.00	2	221.04	2	237.11	1	7.85
Burlington, Iowa.....	1	96.89	1	96.89	—	—	1	96.89	—	—	1	96.89	—	—
Dubuque, Iowa.....	1	26.92	1	26.92	—	—	1	26.92	—	—	—	—	1	26.92
Omaha, Nebraska.....	3	73.17	3	73.17	—	—	3	73.17	—	—	3	73.17	—	—
Minnesota.....	2	102.64	2	102.64	—	—	2	102.64	1	70.56	1	32.08	—	—
Lacrosse, Wisconsin.....	4	236.73	4	236.73	—	—	4	236.73	1	61.10	1	139.04	2	36.59
Cairo, Illinois.....	1	31.74	1	31.74	—	—	1	31.74	—	—	1	31.74	—	—
Galena, Illinois.....	2	253.26	2	253.26	—	—	2	253.26	1	198.31	1	54.95	—	—
Evansville, Indiana.....	6	538.57	6	538.57	—	—	6	538.57	1	43.70	5	494.87	—	—
Cincinnati, Ohio.....	6	1, 009.35	6	1, 009.35	—	—	6	1, 009.35	1	140.46	5	868.89	—	—
Wheeling, West Virginia.....	13	1, 332.13	13	1, 332.13	—	—	13	1, 332.13	2	373.76	11	958.37	—	—
Pittsburg, Pennsylvania.....	18	4, 391.70	18	4, 391.70	—	—	18	4, 391.70	—	—	18	4, 391.70	—	—

1885.

Total	81	11, 220.37	81	11, 220.37	—	—	81	11, 220.37	6	4, 342.18	65	6, 137.95	10	740.24
New Orleans, Louisiana.....	8	367.73	8	367.73	—	—	8	367.73	—	—	5	257.82	3	109.91
Vicksburg, Mississippi.....	2	29.18	2	29.18	—	—	2	29.18	—	—	1	15.73	1	13.45
Memphis, Tennessee.....	5	380.66	5	380.66	—	—	5	380.66	—	—	5	380.66	—	—
Chattanooga, Tennessee.....	1	31.30	1	31.30	—	—	1	31.30	—	—	1	31.30	—	—
Louisville, Kentucky.....	15	4, 273.00	15	4, 273.00	—	—	15	4, 273.00	2	2, 200.32	13	2, 072.68	—	—
Saint Louis, Missouri.....	7	776.06	7	776.06	—	—	7	776.06	1	580.56	5	148.05	1	47.45
Kansas city, Missouri.....	1	20.45	1	20.45	—	—	1	20.45	—	—	1	20.45	—	—
Omaha, Nebraska.....	2	60.55	2	60.55	—	—	2	60.55	—	—	2	60.55	—	—
Burlington, Iowa.....	3	195.84	3	195.84	—	—	3	195.84	—	—	3	195.84	—	—
Dubuque, Iowa.....	3	195.98	3	195.98	—	—	3	195.98	1	50.00	2	145.98	—	—
Minnesota.....	1	103.54	1	103.54	—	—	1	103.54	—	—	1	103.54	—	—
Cairo, Illinois.....	1	48.01	1	48.01	—	—	1	48.01	—	—	1	48.01	—	—
Evansville, Indiana.....	5	281.94	5	281.94	—	—	5	281.94	—	—	4	217.98	1	63.96
Cincinnati, Ohio.....	10	2, 375.99	10	2, 375.99	—	—	10	2, 375.99	2	1, 511.30	6	451.98	2	412.71
Wheeling, West Virginia.....	13	1, 237.02	13	1, 237.02	—	—	13	1, 237.02	—	—	12	1, 225.20	1	11.82
Pittsburg, Pennsylvania.....	4	843.12	4	843.12	—	—	4	843.12	—	—	3	762.18	1	80.94

RIVERS OF THE MISSISSIPPI VALLEY.

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TABLE 28.—COMPARATIVE STATISTICS—Continued.

NUMBER AND TONNAGE OF ALL STEAMERS AND BARGES BUILT IN THE CUSTOMS DISTRICTS OF THE MISSISSIPPI VALLEY DURING THE YEARS 1880 TO 1889, INCLUSIVE, ETC.—Continued.

1886.

CUSTOMS DISTRICTS.	CLASS.						METHOD OF STEAMERS' PROPULSION.							
	Total.		Steamers.		Barges.		Total.		Side-wheel.		Stern-wheel.		Propeller.	
	Num-ber.	Tonnage.	Num-ber.	Tonnage.	Num-ber.	Tonnage.	Num-ber.	Tonnage.	Num-ber.	Tonnage.	Num-ber.	Tonnage.	Num-ber.	Tonnage.
Total	76	10,594.93	70	9,699.70	6	895.23	70	9,699.70	1	1,333.42	58	8,226.71	4	139.57
New Orleans, Louisiana	2	95.87	2	95.87			2	95.87			1	36.80	1	59.07
Vicksburg, Mississippi	2	63.80	2	63.80			2	63.80			2	63.80		
Memphis, Tennessee	8	818.27	8	818.27			8	818.27	3	271.78	5	546.49		
Nashville, Tennessee	2	131.67	2	131.67			2	131.67			2	131.67		
Chattanooga, Tennessee	2	505.91	2	505.91			2	505.91			2	505.91		
Paducah, Kentucky	2	305.20	2	305.20			2	305.20			2	305.20		
Louisville, Kentucky	11	2,269.87	11	2,269.87			11	2,269.87	1	714.87	10	1,555.00		
Saint Louis, Missouri	2	86.68	2	86.68			2	86.68	1	14.04	1	72.64		
Kansas city, Missouri	1	25.81	1	25.81			1	25.81			1	25.81		
Omaha, Nebraska	2	50.52	2	50.52			2	50.52			2	50.52		
Burlington, Iowa	5	303.56	2	144.07	3	159.49	2	144.07			2	144.07		
Dubuque, Iowa	2	260.35	2	260.35			2	260.35			2	260.35		
Minnesota	4	309.06	3	235.20	1	73.86	3	235.20			2	212.55	1	22.65
Lacrosse, Wisconsin	4	142.57	4	142.57			4	142.57	1	24.47	2	90.88	1	27.22
Galena, Illinois	1	35.00			1	35.00								
Evansville, Indiana	1	235.20	1	235.20			1	235.20			1	235.20		
Cincinnati, Ohio	5	1,344.92	4	718.04	1	626.88	4	718.04			4	718.04		
Wheeling, West Virginia	8	724.25	8	724.25			8	724.25	1	39.93	6	653.69	1	30.63
Pittsburg, Pennsylvania	12	2,886.42	12	2,886.42			12	2,886.42	1	268.33	11	2,618.09		

1887.

Total	79	10,900.93	69	10,167.73	10	733.20	69	10,167.73	6	2,170.99	55	7,872.06	1	124.68
New Orleans, Louisiana	4	89.37	4	89.37			4	89.37			2	52.38	2	36.99
Vicksburg, Mississippi	1	22.27	1	22.27			1	22.27			1	22.27		
Memphis, Tennessee	9	610.78	9	610.78			9	610.78			7	592.02	2	18.76
Chattanooga, Tennessee	1	565.34	1	565.34			1	565.34			1	565.34		
Paducah, Kentucky	1	235.20	1	235.20			1	235.20			1	235.20		
Louisville, Kentucky	15	4,422.82	14	4,240.80	1	182.02	14	4,240.80	2	1,950.73	12	2,290.07		
Saint Louis, Missouri	4	70.08	4	70.08			4	70.08	1	23.16	2	28.52	1	18.40
Kansas city, Missouri	1	21.86	1	21.86			1	21.86			1	21.86		
Burlington, Iowa	5	184.42			5	184.42								
Dubuque, Iowa	1	89.00			1	89.00								
Minnesota	8	487.53	7	413.42	1	74.11	7	413.42			1	373.17	1	40.25
Lacrosse, Wisconsin	4	213.93	2	10.28	2	203.65	2	10.28					2	10.28
Evansville, Indiana	5	634.81	5	634.81			5	634.81			5	634.81		
Cincinnati, Ohio	4	501.95	4	501.95			4	501.95	1	65.73	3	436.22		
Wheeling, West Virginia	6	503.86	6	503.86			6	503.86	1	52.93	5	450.93		
Pittsburg, Pennsylvania	10	2,247.71	10	2,247.71			10	2,247.71	1	78.44	9	2,169.27		

1888.

Total	84	11,859.15	74	11,371.56	10	487.59	74	11,371.56	9	4,312.73	59	6,830.91	6	227.92
New Orleans, Louisiana	6	391.91	6	391.91			6	391.91			5	265.33	1	126.58
Memphis, Tennessee	8	1,371.10	8	1,371.10			8	1,371.10	2	1,196.67	1	174.43		
Nashville, Tennessee	1	102.48	1	102.48			1	102.48			1	102.48		
Chattanooga, Tennessee	5	810.53	5	810.53			5	810.53			5	810.53		
Paducah, Kentucky	3	493.75	3	493.75			3	493.75			3	493.75		
Louisville, Kentucky	13	4,532.43	12	4,351.42	1	181.01	12	4,351.42	4	2,956.39	1	1,395.03		
Saint Louis, Missouri	3	35.13			3	35.13								
Kansas city, Missouri	1	80.35	1	80.35			1	80.35			1	80.35		
Saint Joseph, Missouri	1	19.36	1	19.36			1	19.36			1	19.36		
Dubuque, Iowa	2	237.66	2	237.66			2	237.66			2	237.66		
Minnesota	7	334.57	6	311.92	1	22.65	6	311.92			5	301.95	1	9.97
Lacrosse, Wisconsin	3	235.67	1	121.92	2	113.75	1	121.92			1	121.92		
Galena, Illinois	2	63.16	1	46.63	1	16.53	1	46.63	1	46.63				
Evansville, Indiana	5	185.57	5	185.57			5	185.57	1	20.49	2	136.49	2	28.59
Cincinnati, Ohio	4	314.62	4	314.62			4	314.62	1	92.55	3	222.07		
Wheeling, West Virginia	12	1,064.57	12	1,064.57			12	1,064.57			10	1,001.79	2	62.78
Pittsburg, Pennsylvania	8	1,586.29	6	1,467.77	2	118.52	6	1,467.77			6	1,467.77		

STATISTICS OF TRANSPORTATION.

TABLE 28.—COMPARATIVE STATISTICS—Continued.

NUMBER AND TONNAGE OF ALL STEAMERS AND BARGES BUILT IN THE CUSTOMS DISTRICTS OF THE MISSISSIPPI VALLEY DURING THE YEARS 1880 TO 1889, INCLUSIVE, ETC.—Continued.

1889.

CUSTOMS DISTRICTS.	CLASS.						METHOD OF STEAMERS' PROPULSION.							
	Total.		Steamers.		Barges.		Total.		Side-wheel.		Stern-wheel.		Propeller.	
	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.	Num- ber.	Tonnage.
Total	83	12,202.36	74	11,556.73	9	645.63	74	11,556.73	2	980.54	56	9,289.50	16	1,286.69
New Orleans, Louisiana.....	3	1,079.75	3	1,079.75			3	1,079.75	1	957.31			2	122.44
Memphis, Tennessee.....	7	1,101.98	7	1,101.98			7	1,101.98	1	23.23	6	1,078.75		
Chattanooga, Tennessee.....	3	134.88	3	134.88			3	134.88			2	112.61	1	22.27
Paducah, Kentucky.....	7	980.65	6	730.01	1	250.64	6	730.01			5	686.26	1	43.75
Louisville, Kentucky.....	14	4,392.15	14	4,392.15			14	4,392.15			14	4,392.15		
Saint Louis, Missouri.....	1	43.05	1	43.05			1	43.05			1	43.05		
Kansas city, Missouri.....	1	20.53	1	20.53			1	20.53			1	20.53		
Saint Joseph, Missouri.....	1	36.00	1	36.00			1	36.00			1	36.00		
Burlington, Iowa.....	4	157.11			4	157.11								
Dubuque, Iowa.....	5	724.08	4	670.52	1	53.56	4	670.52			2	644.60	2	25.92
Omaha, Nebraska.....	1	21.71	1	21.71			1	21.71			1	21.71		
Minnesota.....	5	432.28	3	330.06	2	102.22	3	330.06			2	317.86	1	12.20
Lacrosse, Wisconsin.....	5	353.29	4	271.19	1	82.10	4	271.19			4	271.19		
Galena, Illinois.....	2	175.62	2	175.62			2	175.62			1	142.76	1	32.86
Evansville, Indiana.....	2	92.40	2	92.40			2	92.40			1	68.08	1	24.32
Cincinnati, Ohio.....	8	1,082.90	8	1,082.90			8	1,082.90			1	79.97	7	1,002.93
Wheeling, West Virginia.....	6	493.42	6	493.42			6	493.42			6	493.42		
Pittsburg, Pennsylvania.....	8	880.56	8	880.56			8	880.56			8	880.56		

RECAPITULATION FOR THE 10 YEARS.

Total for 10 years.....	1,090	249,682.12	955	164,304.48	135	85,377.64	955	164,304.48	127	48,265.61	696	107,674.06	132	8,364.81
1880.....	135	32,791.31	117	23,930.92	18	8,860.39	117	23,930.92	30	11,449.60	75	11,791.60	12	689.72
1881.....	182	81,188.88	129	24,587.06	53	56,601.82	129	24,587.06	24	6,925.70	82	15,435.70	23	2,225.66
1882.....	152	35,816.95	134	24,671.90	18	11,145.05	134	24,671.90	12	6,576.18	100	17,123.97	22	971.75
1883.....	125	26,442.92	116	20,879.07	9	5,563.85	116	20,879.07	18	6,388.03	76	12,890.00	22	1,601.04
1884.....	93	16,664.32	91	16,219.44	2	444.88	91	16,219.44	12	3,786.24	70	12,075.66	9	357.54
1885.....	81	11,220.37	81	11,220.37			81	11,220.37	6	4,342.18	65	6,137.95	10	740.24
1886.....	76	10,594.93	70	9,699.70	6	895.23	70	9,699.70	8	1,333.42	58	8,226.71	4	139.57
1887.....	79	10,900.93	69	10,167.73	10	733.20	69	10,167.73	6	2,170.99	55	7,872.06	8	124.68
1888.....	84	11,859.15	74	11,371.56	10	487.59	74	11,371.56	9	4,312.73	59	6,830.91	6	227.92
1889.....	83	12,202.36	74	11,556.73	9	645.63	74	11,556.73	2	980.54	56	9,289.50	16	1,286.69

RIVERS OF THE MISSISSIPPI VALLEY.

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TABLE 29.—CONGRESSIONAL APPROPRIATIONS.

ITEMIZED STATEMENT OF THE SUMS APPROPRIATED BY CONGRESS FOR THE SURVEYS, IMPROVEMENT, AND MAINTENANCE OF THE WATER WAYS AND HARBORS OF THE MISSISSIPPI VALLEY, BY PERIODS, FROM THE EARLIEST DATE OF APPROPRIATION TO 1890, INCLUSIVE. (a)

LOCALITIES.	Date of earliest appropriation.	Appropriations up to and including 1879.	Appropriations from 1880 to 1889, inclusive.	Appropriations by act of Congress, September, 1890.	Total appropriations up to date.
Grand total.....	1819	\$28, 200, 707	\$39, 290, 556	\$9, 336, 200	\$76, 827, 463
Total for Upper Mississippi system	1832	12, 792, 679	13, 234, 510	3, 246, 000	29, 273, 189
Total for Ohio system	1827	9, 396, 351	10, 011, 921	2, 331, 000	21, 739, 272
Total for Lower Mississippi system	1827	4, 604, 677	15, 916, 125	3, 744, 200	24, 255, 002
Total for Red River of the North	1876	65, 000	128, 000	25, 000	218, 000
Miscellaneous	1819	1, 342, 000			1, 342, 000
UPPER MISSISSIPPI SYSTEM.					
Upper Mississippi:					
At sources	1879	25, 000	634, 500	80, 000	739, 500
Above Falls of Saint Anthony	1875	120, 000	45, 000	18, 000	183, 000
At Falls of Saint Anthony	1870	480, 000	60, 000		540, 000
Meekers island	1873	25, 000			25, 000
Saint Paul to Des Moines	1844	533, 600	1, 972, 500	500, 000	3, 006, 100
Des Moines rapids	1852	4, 268, 500	386, 250	22, 000	4, 676, 750
Rock Island rapids	1866	1, 150, 650	16, 000		1, 166, 650
Des Moines to mouth of Illinois	1852	150, 000	1, 131, 000	165, 000	1, 446, 000
Illinois to Ohio river	1836	1, 554, 600	2, 705, 000	582, 000	4, 841, 600
Snagging	1870	115, 000	260, 000		375, 000
Total for Upper Mississippi	1836	8, 422, 350	7, 210, 250	1, 367, 000	16, 999, 600
Tributaries:					
Galena	1878	42, 000	24, 000	6100, 000	166, 000
Fox and Wisconsin (c)	1839	2, 028, 714	771, 260	100, 000	2, 899, 974
Minnesota	1867	117, 500	10, 000		127, 500
Hennepin canal	1882		45, 000	500, 000	545, 000
Quivre	1880		12, 000		12, 000
Red Cedar	1839	1, 500			1, 500
Total for tributaries	1839	2, 189, 714	862, 260	700, 000	3, 751, 974
Total for Upper Mississippi	1836	8, 422, 350	7, 210, 250	1, 367, 000	16, 999, 600
Total for Upper Mississippi and tributaries	1836	10, 612, 064	8, 072, 510	2, 067, 000	20, 751, 574
Saint Croix	1878	18, 000	74, 500	8, 000	100, 500
Chippewa	1876	34, 465	128, 750	10, 000	173, 215
Illinois	1852	639, 150	947, 500	2, 000	1, 588, 650
Missouri:					
Upper	1876	100, 000	375, 000	300, 000	775, 000
Lower	1878	451, 500	2, 175, 000	800, 000	3, 426, 500
Whole river	1832	492, 500	1, 000, 000		1, 492, 500
Snagging	1836	200, 000	145, 000		345, 000
Surveys	1878	80, 000	115, 000		195, 000
Total for Missouri	1832	1, 324, 000	3, 810, 000	1, 100, 000	6, 234, 000
Tributaries:					
Osage	1871	140, 000	65, 000	55, 000	260, 000
Gasconade	1880		42, 500	4, 000	46, 500
Yellowstone	1879	25, 000	93, 750		118, 750
Total for tributaries	1871	165, 000	201, 250	59, 000	425, 250
Total for the Missouri	1832	1, 324, 000	3, 810, 000	1, 100, 000	6, 234, 000
Total for Missouri and tributaries	1832	1, 489, 000	4, 011, 250	1, 159, 000	6, 659, 250
Total for Upper Mississippi system	1832	12, 792, 679	13, 234, 510	3, 246, 000	29, 273, 189

a Compiled from information furnished by chief of engineers, United States army.

b Conditional.

c The appropriations were made "for the improvement of the water communication between Lake Michigan and the Mississippi river".

TABLE 29.—CONGRESSIONAL APPROPRIATIONS—Continued.

LOCALITIES.	Date of earliest appropriation.	Appropriations up to and including 1879.	Appropriations from 1880 to 1889, inclusive.	Appropriations by act of Congress, September, 1890.	Total appropriations up to date.
OHIO SYSTEM.					
Ohio:					
General improvements.....	1835	\$2, 731, 500	\$2, 459, 250	\$300, 000	\$5, 490, 750
Falls of Ohio and canal	1852	1, 305, 000	736, 563	85, 000	2, 126, 563
Together with purchase of Louisville and Portland canal.....	1873	1, 250, 000			1, 250, 000
Total for Ohio.....	1835	5, 286, 500	3, 195, 813	385, 000	8, 867, 313
Tributaries:					
Guyandotte.....	1878	3, 000	11, 500	2, 000	16, 500
Licking.....	1888		3, 000	3, 000	6, 000
Beaver River dam	1890			250, 000	250, 000
Tradewater.....	1881		16, 500		16, 500
Total for tributaries	1878	3, 000	31, 000	255, 000	289, 000
Total for Ohio	1835	5, 286, 500	3, 195, 813	385, 000	8, 867, 313
Total for Ohio and tributaries	1835	5, 289, 500	3, 226, 813	640, 000	9, 156, 313
Allegheny	1879	10, 000	222, 500	20, 000	252, 500
Monongahela	1872	187, 000	406, 733	162, 000	755, 733
Cheat.....	1890			13, 000	13, 000
Buckhannon.....	1884		4, 500	1, 000	5, 500
Total for Monongahela and tributaries	1872	187, 000	411, 233	176, 000	774, 233
Muskingum	1879	30, 000	389, 500	30, 000	449, 500
Little Kanawha	1876	43, 300	127, 875	40, 000	211, 175
Great Kanawha.....	1878	992, 000	1, 337, 500	300, 000	2, 629, 500
Harbor at mouth of.....	1884		15, 000		15, 000
Elk.....	1875	10, 500	16, 000	2, 500	29, 000
Gauley	1888		3, 000	3, 000	6, 000
Total for Great Kanawha and tributaries.....	1873	1, 002, 500	1, 371, 500	305, 500	2, 679, 500
Big Sandy	1878	24, 000	241, 500	31, 000	296, 500
Tag fork	1890			2, 500	2, 500
Levisa fork.....	1890			2, 500	2, 500
Total for Big Sandy and tributaries	1878	24, 000	241, 500	36, 000	301, 500
Kentucky	1879	100, 000	1, 067, 000	180, 000	1, 347, 000
Green (purchase of locks and dams)	1888		135, 000		135, 000
Rough creek.....	1890			25, 000	25, 000
Total for Green and tributaries.....	1888		135, 000	25, 000	160, 000
Wabash	1829	321, 500	319, 000	65, 500	706, 000
White, of Indiana.....	1879	25, 000	82, 000		107, 000
Total for Wabash and tributaries.....	1829	346, 500	401, 000	65, 500	813, 000
Cumberland:					
Above Nashville.....	1876	151, 000	470, 000	250, 000	871, 000
Below Nashville	1832	340, 000	80, 000	40, 000	460, 000
South fork of	1882		12, 000		12, 000
Total for Cumberland.....	1832	491, 000	562, 000	290, 000	1, 343, 000
Tributaries:					
Obey	1880		11, 500		11, 500
Caney fork.....	1880		22, 500	2, 500	25, 000
Total for tributaries	1880		34, 000	2, 500	36, 500
Total for Cumberland.....	1832	491, 000	562, 000	290, 000	1, 343, 000
Total for Cumberland and tributaries.....	1832	491, 000	596, 000	292, 500	1, 379, 500

TABLE 29.—CONGRESSIONAL APPROPRIATIONS—Continued.

LOCALITIES.	Date of earliest appropriation.	Appropriations up to and including 1879.	Appropriations from 1880 to 1889, inclusive.	Appropriations by act of Congress, September, 1890.	Total appropriations up to date.
OHIO SYSTEM—Continued.					
Tennessee:					
Below Chattanooga.....	1827	\$1,548,051	\$1,662,500	\$475,000	\$3,685,551
Above Chattanooga.....	1852	241,500	49,500	30,000	321,000
Total for Tennessee.....	1827	1,789,551	1,712,000	505,000	4,006,551
Tributaries:					
Duck.....	1880		13,000		13,000
Clinch.....	1880		31,000	4,000	35,000
Hiwassee.....	1876	23,000	10,000	1,500	34,500
French Broad, of Tennessee.....	1876	60,000	51,000	10,000	121,000
Little Tennessee.....	1882		5,000		5,000
Total for tributaries.....	1876	83,000	110,000	15,500	208,500
Total for Tennessee.....	1827	1,789,551	1,712,000	505,000	4,006,551
Total for Tennessee and tributaries.....	1827	1,872,551	1,822,000	520,500	4,215,051
Total for Ohio system.....	1827	9,396,351	10,011,921	2,331,000	21,739,272
LOWER MISSISSIPPI SYSTEM.					
Lower Mississippi (exclusive of passes) (a):					
From Ohio river to head of passes.....	1878	527,000	13,438,000	63,200,000	17,165,000
Snagging.....	1836	225,000	536,750		761,750
Water gauges.....	1876	15,000	36,700		51,700
Total for Lower Mississippi.....	1836	767,000	14,011,450	3,200,000	17,978,450
Bayous:					
Bartholomew.....	1881		28,000	5,000	33,000
Black.....	1881		25,000		25,000
Bœuf.....	1881		26,000	5,000	31,000
Courtableau.....	1880		29,000	2,200	31,200
D'Arbonne.....	1884		9,000	2,000	11,000
Lafourche.....	1852	22,500	60,000	50,000	132,500
Loggy.....	1884		10,000		10,000
Pierre.....	1884		13,600		13,600
Atchafalaya (c).....	1888				
Vidal.....	1880		1,000	1,000	2,000
Tecche.....	1829	18,200	77,500	5,000	100,700
Terrebonne.....	1880		38,800		38,800
Steels.....	1884		7,500	2,500	10,000
Cypress.....	1872	94,000	23,000	10,000	127,000
Total for bayous.....	1829	134,700	348,400	82,700	565,800
Tributaries:					
Forked Deer, south fork of.....	1882		17,000	2,500	19,500
Saint Francis and Cache creek.....	1880		41,000	14,500	55,500
Big Black.....	1884		10,000	5,000	15,000
Big Hatchie.....	1880		27,000	5,000	32,000
L'Anguille.....	1878	15,000	2,000		17,000
Kaskaskia.....	1890			6,000	6,000
Little, of Missouri.....	1888		5,000	3,000	8,000
Total for tributaries.....	1878	15,000	102,000	36,000	153,000
Early appropriations for whole river, 1827 to 1879.....	1827	1,295,712			1,295,712
Total for tributaries.....	1878	15,000	102,000	36,000	153,000
Total for bayous.....	1829	134,700	348,400	82,700	565,800
Total for Lower Mississippi.....	1836	767,000	14,011,450	3,200,000	17,978,450
Total for Lower Mississippi, tributaries, and bayous.....	1827	2,212,412	14,461,850	3,318,700	19,992,962

a For the appropriations for the improvement at the mouth of the Mississippi, consisting of surveys, channel work, and jetties, amounting to \$7,597,500, see table of appropriations for Gulf of Mexico.

b In the second session of Congress, in 1891, an additional \$1,000,000 was appropriated.

c Amount included in general appropriation for the Lower Mississippi.

STATISTICS OF TRANSPORTATION.

TABLE 29.—CONGRESSIONAL APPROPRIATIONS—Continued.

LOCALITIES.	Date of earliest appropriation.	Appropriations up to and including 1879.	Appropriations from 1880 to 1889, inclusive.	Appropriations by act of Congress, September, 1890.	Total appropriations up to date.
LOWER MISSISSIPPI SYSTEM—Continued.					
White, of Arkansas.....	1874	\$183,500	\$153,000	\$30,000	\$366,500
Tributaries:					
Current.....	1872	5,000	2,000		7,000
Black, of Missouri.....	1880		68,000	12,000	80,000
Little Red.....	1886		8,400		8,400
Total for tributaries.....	1872	5,000	78,400	12,000	95,400
Total for White.....	1874	183,500	153,000	30,000	366,500
Total for White and tributaries.....	1872	188,500	231,400	42,000	461,900
Arkansas:					
Above Fort Smith.....	1876	40,000	113,000		153,000
At Fort Smith.....	1876	20,000	18,000		38,000
At Pine Bluff.....	1880		131,000		131,000
From Little Rock to mouth.....	1884		19,000		19,000
General improvement.....	1892	512,500		180,000	692,500
Snagging.....	1878	35,000	175,875	20,000	230,875
Total for Arkansas.....	1832	607,500	456,875	200,000	1,264,375
Tributaries:					
Fourche la Pave.....	1879	10,000	16,000	500	26,500
Petit Jean.....	1886		6,000		6,000
Total for tributaries.....	1879	10,000	22,000	500	32,500
Total for Arkansas.....	1832	607,500	456,875	200,000	1,264,375
Total for Arkansas and tributaries.....	1832	617,500	478,875	200,500	1,296,875
Yazoo.....	1873	107,000	83,000	25,000	215,000
Tributaries:					
Big Sunflower.....	1879	29,000	32,000	5,000	57,000
Coldwater.....	1879	7,000	4,000	10,000	21,000
Tchula lake.....	1881		12,000	3,000	15,000
Yalobusha.....	1881		11,000		11,000
Tallahatchie.....	1879	6,000	26,000	5,000	37,000
Total for tributaries.....	1879	33,000	85,000	23,000	141,000
Total for Yazoo.....	1873	107,000	83,000	25,000	215,000
Total for Yazoo and tributaries.....	1873	140,000	168,000	48,000	356,000
Washita and Black.....	1871	243,000	93,500	15,000	351,500
Little Missouri, of Arkansas.....	1871	20,000			20,000
Tensas.....	1881		16,000	5,000	21,000
Saline.....	1880		21,500		21,500
Total for Washita, Black, and tributaries.....	1871	263,000	131,000	20,000	414,000
Red.....	1828	1,183,265	440,000	102,000	1,725,265
Tributaries:					
Little, of Louisiana.....	1888		2,500	3,000	5,500
Caney via Little.....	1884		2,500		2,500
Total for tributaries.....	1884		5,000	3,000	8,000
Total for Red.....	1828	1,183,265	440,000	102,000	1,725,265
Total for Red and tributaries.....	1828	1,183,265	445,000	105,000	1,733,265
Total for Lower Mississippi system.....	1827	4,604,677	15,916,125	3,734,200	24,255,002
RED RIVER OF THE NORTH.					
Total.....	1876	65,000	128,000	25,000	218,000
MISCELLANEOUS.					
Construction of snag and dredge boats.....	1852	846,000			846,000
Surveys.....	1819	286,000			286,000
Surveys and estimates of canal from Cumberland to mouth of Youghiogheny, 1874 and 1875.....	1874	210,000			210,000
Total for miscellaneous.....	1819	1,342,000			1,342,000

TABLE 30.—CONGRESSIONAL APPROPRIATIONS.

STATEMENT BY TOTALS OF THE APPROPRIATIONS GIVEN BY LOCALIZED ITEMS IN THE PRECEDING TABLE.

LOCALITIES.	Date of earliest appropriation.	Appropriations up to and including 1879.	Appropriations from 1880 to 1889, inclusive.	Appropriations by act of Congress, September, 1890.	Total appropriations up to date.
Grand total for the Valley	1819	\$28,200,707	\$39,290,556	\$9,336,200	\$76,827,463
Upper Mississippi	1836	10,612,064	8,072,510	2,067,000	20,751,574
Saint Croix	1878	18,000	74,500	8,000	100,500
Chippewa	1876	34,465	128,750	10,000	173,215
Illinois	1852	639,150	947,500	2,000	1,588,650
Missouri	1832	1,489,000	4,011,250	1,159,000	6,659,250
Total for Upper Mississippi system	1832	12,792,679	13,234,510	3,246,000	29,273,189
Ohio	1835	5,289,500	3,226,813	640,000	9,156,313
Allegheny	1879	10,000	222,500	20,000	252,500
Monongahela	1872	187,000	411,233	176,000	774,233
Muskingum	1879	30,000	389,500	30,000	449,500
Little Kanawha	1876	43,300	127,875	40,000	211,175
Great Kanawha	1873	1,002,500	1,371,500	305,500	2,679,500
Big Sandy	1878	24,000	241,500	36,000	301,500
Kentucky	1879	100,000	1,067,000	180,000	1,347,000
Green	1888		135,000	25,000	160,000
Wabash	1829	346,500	401,000	65,500	813,000
Cumberland	1832	491,000	596,000	292,500	1,379,500
Tennessee	1827	1,872,551	1,822,000	520,500	4,215,051
Total for Ohio system	1827	9,396,351	10,011,921	2,331,000	21,739,272
Lower Mississippi	1827	2,212,412	14,461,850	3,318,700	19,992,962
White	1872	188,500	231,400	42,000	461,900
Arkansas	1832	617,500	478,875	200,500	1,296,875
Yazoo	1873	140,000	168,000	48,000	356,000
Washita	1871	263,000	131,000	20,000	414,000
Red	1828	1,183,265	445,000	105,000	1,733,265
Total for Lower Mississippi system	1827	4,604,677 *	15,916,125	3,734,200	24,255,002
Red River of the North	1876	65,000	128,000	25,000	218,000
Miscellaneous	1819	1,342,000			1,342,000

TABLE 31.—NAVIGABLE WATERS.

NUMBER OF NAVIGABLE MILES ON THE RIVERS OF THE MISSISSIPPI VALLEY AND NUMBER OF MILES OVER WHICH A TRANSPORTATION BUSINESS WAS CONDUCTED IN 1889.

LOCALITIES.	Miles of operated rivers in 1889.	Miles of navigable rivers in 1889.	LOCALITIES.	Miles of operated rivers in 1889.	Miles of navigable rivers in 1889.
Grand total for the Valley	14,266	15,410	OHIO SYSTEM—Continued.		
Total for Upper Mississippi system	4,103	4,486	Big Sandy	26	26
Total for Ohio system	4,178	4,406	Tug fork	100	100
Total for Lower Mississippi system	5,695	6,228	Levisa fork	86	86
Total for Red River of the North	290	290	Total for Big Sandy and tributaries	212	212
UPPER MISSISSIPPI SYSTEM.			Kentucky	261	261
Upper Mississippi:			Green	150	150
Headwaters to Saint Louis	870	870	Rough creek (or Barren)	25	25
Tributaries:			Total for Green and tributaries	175	175
Galena		6	Wabash	183	183
Fox and Wisconsin		62	White, of Indiana	27	27
Minnesota	25	25	Total for Wabash and tributaries	210	210
Hennepin canal			Cumberland:		
Cuivre		15	Headwaters to mouth	578	578
Total for tributaries	25	108	Tributaries:		
Total for Upper Mississippi	870	870	Obey		58
Total for Upper Mississippi and tributaries	895	978	Caney fork	92	92
Saint Croix	120	120	Total for tributaries	92	150
Chippewa	57	57	Total for Cumberland	578	578
Illinois	225	225	Total for Cumberland and tributaries	670	728
Missouri:			Tennessee:		
Headwaters to Saint Louis	2,519	2,519	Headwaters to mouth	650	650
Tributaries:			Tributaries:		
Osage	200	200	Duck		67
Gasconade	87	87	Clinch	70	70
Yellowstone		300	Hiwassee	43	43
Total for tributaries	287	587	French Broad, of Tennessee	90	90
Total for the Missouri	2,519	2,519	Little Tennessee		13
Total for Missouri and tributaries	2,806	3,106	Total for tributaries	203	283
Total for Upper Mississippi system	4,103	4,486	Total for the Tennessee	650	650
OHIO SYSTEM.			Total for Tennessee and tributaries	853	933
Pittsburg to the mouth	967	967	Total for Ohio system	4,178	4,406
Tributaries:			LOWER MISSISSIPPI SYSTEM.		
Guyandotte	80	80	Lower Mississippi:		
Licking	90	90	From Saint Louis to head of passes	1,264	1,264
Tradewater	22	22	Bayous:		
Total for tributaries	192	192	Bartholomew	85	85
Total for the Ohio	967	967	Black		14
Total for Ohio and tributaries	1,159	1,159	Boeuf	261	261
Allegheny	180	180	Courtableau	25	25
Monongahela	102	102	D'Arbonne	43	43
Cheat		90	Lafourche	110	110
Buckhannon	48	48	Loggy		
Total for Monongahela and tributaries	150	240	Pierre	60	60
Muskingum	91	91	Teche		80
Little Kanawha	49	49	Terrebonne	46	46
Great Kanawha	96	96	Steels	85	85
Elk	45	45	Cypress		65
Gauley	27	27	Total for bayous	715	874
Total for Great Kanawha and tributaries	168	168	Tributaries:		
			Forked Deer, south fork of		10
			Saint Francis and Cache creek, via White	285	285
			Big Black		65
			Big Hatchie		100
			L'Anguille via Saint Francis	38	38

RIVERS OF THE MISSISSIPPI VALLEY.

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TABLE 31.—NAVIGABLE WATERS—Continued.

NUMBER OF NAVIGABLE MILES ON THE RIVERS OF THE MISSISSIPPI VALLEY, ETC.—Continued.

LOCALITIES.	Miles of operated rivers in 1889.	Miles of navigable rivers in 1889.	LOCALITIES.	Miles of operated rivers in 1889.	Miles of navigable rivers in 1889.
LOWER MISSISSIPPI SYSTEM—Continued.			LOWER MISSISSIPPI SYSTEM—Continued.		
Lower Mississippi tributaries—Continued.			Yazoo	173	173
Kaskaskia		24	Tributaries:		
Little, of Missouri, via Saint Francis	85	85	Big Sunflower	144	144
			Coldwater	25	25
Total for tributaries	408	607	Tchula lake		60
Total for bayous	715	874	Yalobusha		90
Total for Lower Mississippi	1,264	1,264	Tallahatchie	100	100
			Total for tributaries	269	419
Total for Lower Mississippi, bayous, and tribu- taries.	2,387	2,745	Total for Yazoo	173	173
			Total for Yazoo and tributaries	442	592
White, of Arkansas	300	300	Washita and Black	306	306
Tributaries:			Tributaries:		
Current			Little Missouri, of Arkansas		
Black, of Missouri	100	100	Tensas and Macon	130	130
Little Red	90	90	Saline	80	80
			Total for tributaries	210	210
Total for tributaries	190	190	Total for Washita and Black	306	306
Total for White	300	300	Total for Washita, Black, and tributaries	516	516
			Red:		
Total for White and tributaries	490	490	Headwaters to mouth	1,000	1,000
Arkansas:			Tributaries:		
Headwaters to mouth	771	771	Little, of Louisiana		25
Tributaries:			Total for tributaries		25
Fourche la Pave	44	44	Total for Red	1,000	1,000
Petit Jean	45	45	Total for Red and tributaries	1,000	1,025
			Total for Lower Mississippi system	5,695	6,228
Total for tributaries	89	89	RED RIVER OF THE NORTH.		
Total for the Arkansas	771	771	Total	290	290
Total for Arkansas and tributaries	860	860			

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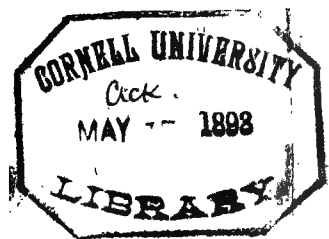
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DEPARTMENT OF THE INTERIOR,
CENSUS OFFICE.
ROBERT P. PORTER, Superintendent.

REPORT

ON

TRANSPORTATION BUSINESS

IN

THE UNITED STATES

AT THE

ELEVENTH CENSUS: 1890.

STREET RAILWAYS.

HENRY C. ADAMS,

SPECIAL AGENT.



WASHINGTON, D. C.:
GOVERNMENT PRINTING OFFICE.
1892.

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LETTER OF TRANSMITTAL.

DEPARTMENT OF THE INTERIOR,
CENSUS OFFICE,
WASHINGTON, September 1, 1892.

SIR:

The report which I have the honor to transmit herewith is on the street railways of the United States, the statistics including those for the census year 1890, the comparative data for the decade commencing with 1880, and the facts of contrast between the status of street railway traffic in this and other countries.

No report of the operations and extension of street railways was made for the Tenth Census, and as this is the first time such statistics have been gathered and compiled, it is possible that the present report may contain one or two of those defects of order and arrangement which invariably inhere to experimental work. This statement, however, is rather made in the nature of a preface of disarmament than as an apology for any actual shortcomings, because as a matter of fact the report is an unusually complete and interesting one, and reflects great credit on its compiler.

Some of the figures given are very extraordinary. Those, for instance, which show that in 1880 there were but 2,050.16 miles of street railway in this country, and that in 1890 this number had risen to 5,783.47 miles, an increase of 3,733.31 miles, or 182.10 per cent; or those which show that during the census year no fewer than 2,023,010,202 passengers, or a number nearly as great as the population of the entire globe, were carried on street railways; or those which show that on July 1, 1890, there were 144 companies operating electric railways and 48 companies operating cable roads, while 5 years previously there were but 11 railways operated by cable traction and no railways at all operated by electricity.

This report has been prepared by and is the result of the investigations of Messrs. Charles H. Cooley and Ephraim D. Adams, under the general direction of Mr. Henry C. Adams as special agent, and I have much pleasure in acknowledging the intelligence and energy which these gentlemen have displayed in the preparation and completion of their work.

Very respectfully,

ROBERT P. PORTER,
Superintendent of Census.

The SECRETARY OF THE INTERIOR,
Washington, D. C.

INTRODUCTION.

BY HENRY C. ADAMS.

In order to distinctly indicate the extent of the comprehensive character of the report herewith, it is well to state that under the name of street railways are included horse railways, cable railways, electric railways, and steam railways engaged exclusively in city passenger traffic.

It is impossible to overestimate the importance of rapid transit facilities in the organization of modern society. Since the introduction of machinery and the extension of the principle of division of labor which machinery renders possible there has been a marked tendency among people to crowd together in cities. The most perfect organization of labor demands that work be carried on in compact centers, and this, in the absence of any relief, means that workers shall live in the immediate vicinity of their employment. The industrial tendency is necessarily toward congested population. On the other hand, the demands of humanity and of all those wider interests summed up in the phrase "the social interests" require that every man shall enjoy a certain degree of isolation outside of working hours, and that the members of the worker's family not directly engaged in labor shall be removed from the physical and moral evils of dense populations. In this respect the social and industrial interests stand opposed to each other, and it is the function of rapid transit facilities to harmonize these two conflicting interests. This it does by permitting the worker to go from his home to his place of employment quickly and safely and at cheap rates. It is gratifying to be able to note that the problem of relieving the congested population incident to a bustling city is in most places in a fair way of attaining its solution in the United States.

The use made of the street railway facilities by the inhabitants of American cities is much greater than by those living in foreign cities. Thus the average number of rides per inhabitant in the city of New York during the year was 297, in Chicago it was 164, and in Philadelphia it was 158. In Liverpool (England) the average number of rides per inhabitant was 51, in Berlin (Germany) it was 87, and in Vienna (Austria) it was 43. Data for further comparisons of this sort may be found in several other portions of this work, but on all these matters the text prepared by Mr. Cooley relieves me of the necessity of further statement.

The facts contained in this report are of a technical as well as of a general interest. In 1885 there were no railways operated by electricity, and but 11 railways operated by cable traction. On July 1, 1890, there were 144 companies operating electric railways and 48 companies operating cable roads. This seems to suggest that the question of rapid transit as a technical question is still in a state of experimentation, and it has been the purpose of this investigation to collect such information as will assist those who have capital to invest to determine under what conditions horse, electric, or cable traction may be the most economically and efficiently used. This is of special importance, because the ability of street railways to perform their true social functions depends on the speed of transit and the cheapness of the service. A large amount of interesting matter pertinent to the question of economical construction will be found in the accompanying report.

The success of the investigation is due to the intelligence and energy of Mr. Charles H. Cooley, by whom the work was planned, and Mr. Ephraim D. Adams, who had charge of the same while Mr. Cooley was chief of the transportation division of the Census Office. The guaranty of accuracy is that one or the other of these gentlemen passed personally on every fact herewith published.

I take this occasion to publicly acknowledge the uniform courtesy extended to the transportation division of the Census Office by managers of street railways, as also by other interested parties.

STREET RAILWAY TRANSPORTATION.

STATISTICS OF STREET RAILWAY TRANSPORTATION.

BY CHARLES H. COOLEY.

GENERAL REVIEW OF STREET RAILWAY STATISTICS.

The 10 years between the Tenth and Eleventh Censuses saw the length of street railway lines in the United States increase from 2,050.16 to 5,783.47 miles, an increase of 3,733.31 miles, or 182.10 per cent. During the same period the per cent of increase in population was 24.86. As regards their length, therefore, street railways increased over 7 times as fast as the population of the country.

Large as is this increase in the length of the lines, it by no means measures the development of city transportation in amount of business done and facilities for doing it in an efficient manner. Cable railways, which were in operation on a small scale in San Francisco before 1880, were not in use east of the Rocky mountains until after 1881, and their great development has occurred, therefore, almost wholly within the last decade.

The development of electric railways, challenging attention by its rapid progress and by novel and striking technical features, has taken place not only within the decade but within the latter half of it. The electric roads, which on July 1, 1890, constituted nearly one-fifth of the number of street railways, were none of them in operation previous to the year 1886. The following statement shows the number of electric and cable railways commencing operations in each year since the first one began running in 1877. This statement includes only lines in operation on July 1, 1890, not experimental lines which had been discontinued.

ELECTRIC AND CABLE RAILWAYS BEGINNING OPERATIONS IN EACH YEAR
FROM 1877 TO 1890.

YEARS.	Number of electric railways beginning to operate.	Number of cable railways beginning to operate.	YEARS.	Number of electric railways beginning to operate.	Number of cable railways beginning to operate.
Total	144	48	1883.....		2
1877.....		1	1884.....		
1878.....		1	1885.....		4
1879.....		1	1886.....	2	4
1880.....			1887.....	6	6
1881.....			1888.....	30	11
1882.....		2	1889.....	57	9
			1890 (a)	49	7

a 6 months.

This statement shows at a glance that the use of mechanical traction for the working of street railways, which in the year 1890 had become so familiar in nearly all the larger American cities, grew up almost entirely during the 5 years preceding the Eleventh Census.

It is of considerable interest to note that the growth of lines, surprising everywhere, has been most remarkable in the smaller cities. Of the total length given above, that belonging to cities of over 50,000 inhabitants was 1,584.16 miles in 1880 and 3,205.59 in 1890. The length for smaller cities increased from 466.00 to 2,577.88 miles, or 453.19 per cent. The following tabular statement shows these relations clearly:

STATEMENT SHOWING THE INCREASE IN LENGTH OF STREET RAILWAYS
IN CITIES OF OVER AND LESS THAN 50,000 INHABITANTS.

ITEMS.	LENGTH OF STREET RAILWAYS. (Miles.)		Per cent of increase.
	1890	1880	
All cities	5,783.47	2,050.16	182.10
Cities of more than 50,000 inhabitants	3,205.59	1,584.16	102.35
Cities of less than 50,000 inhabitants	2,577.88	466.00	453.19

STATISTICS OF TRANSPORTATION.

On July 1, 1890, the street railway companies of the United States in operation numbered 789. Their operations were carried on over 5,783.47 miles of line, or over a total track length of 8,123.02 miles. On this line 32,505 passenger cars were in use. The road and equipment cost, all told, \$389,357,288.87, gave employment to 70,764 men, and carried 2,023,010,202 passengers. The extent of this traffic is better realized upon reflecting that the street railways of the United States carry each year a number of passengers considerably greater than the estimated population of the globe. It is interesting also to compare these street railway figures with the corresponding ones for the steam railways of the country:

ITEMS.	Steam railways.	STREET RAILWAYS.	
		Total.	Per cent of total of steam railways.
Length of line	157,758.83	5,783.47	3.67
Passenger cars	25,665.00	32,505.00	126.65
Employés	704,743.00	70,764.00	10.04
Passengers carried	472,171,343.00	2,023,010,202.00	428.45

It is not possible to show with entire accuracy how these numbers, which represent the totals for all street railways, are divided among the several kinds of motive power. Many important roads use several kinds of motive power and keep no records by whose aid statistics of the several kinds can be separated. The distribution given in the following table is, however, sufficiently exact for the purposes of a general survey. It is of date July 1, 1890.

DIVISION OF STREET RAILWAY STATISTICS, BY MOTIVE POWER.

ITEMS.	All motive powers.	DISTRIBUTION.			
		Animal.	Electric.	Cable.	Steam.
Length of line	5,783.47	4,061.94	914.25	283.22	524.06
Length of all tracks	8,123.02	5,661.44	1,261.97	488.31	711.30
Number of passenger cars	32,505	22,408	2,895	5,089	2,113
Number of employés	70,764	44,314	6,619	11,673	8,158
Number of passengers	2,023,010,202	1,227,756,815	134,905,994	373,492,708	286,854,685
Total cost	\$389,357,288.87	\$195,121,682.50	\$35,830,949.63	\$76,346,618.23	\$82,058,038.51

Perhaps the most notable feature of this table is the fact that in 1890 the railways operated by animal power were still far ahead of all others as regards their gross operating statistics. Rapid as was the advance of electric and cable roads during the latter 5 years of the decade, only a beginning was made in the supplanting of the older form of motive power. It is interesting also to see that although in number and length of lines the electric railways have far outstripped the cable railways, the latter, nevertheless, represent twice as great an investment, operate nearly twice the number of cars, and do a business more than twice as great. These relations point clearly to the far greater density of traffic upon the cable lines and to their large first cost. The cable lines almost without exception operate in the denser portion of large cities, while the greater part of the electric roads are either suburban or serve the people of comparatively small cities.

To the elevated railways of New York and Brooklyn is assignable the greater part of the cost and traffic operations included under the head of steam lines.

The chief interest of street railway statistics, however, does not lie in grand totals. That which gives this kind of transportation its momentous importance is its relation to the social life of cities. The table on the following page gives in a concise form the principal facts for all cities in the United States having a population of over 50,000.

STREET RAILWAYS.

5

GENERAL REVIEW OF STREET RAILWAY STATISTICS FOR CITIES OF OVER 50,000 INHABITANTS.

CITIES.	LENGTH IN MILES—		Number of passenger cars.	Number of employes.	Number of passengers carried in 1 year.	Total cost.
	Of line (street length).	Of all tracks, including sidings.				
Total	3, 205. 59	5, 149. 17	26, 363	61. 018	1, 823, 646, 686	\$335, 663, 914. 90
Albany, New York	20. 24	31. 47	89	258	4, 953, 138	1, 156, 073. 39
Atlanta, Georgia	47. 42	51. 84	85	223	6, 026, 054	1, 122, 092. 05
Baltimore, Maryland	100. 57	156. 55	490	1, 547	40, 659, 982	6, 709, 450. 39
Boston, Lynn, and Cambridge, Massachusetts	237. 83	365. 76	2, 396	4, 188	129, 038, 563	17, 604, 671. 76
Brooklyn, New York	173. 24	351. 53	2, 862	6, 359	147, 500, 399	17, 711, 765. 51
Buffalo, New York	44. 30	66. 27	219	730	16, 685, 983	2, 012, 541. 46
Camden, New Jersey	14. 12	15. 00	41	106	2, 898, 770	556, 572. 38
Charleston, South Carolina	20. 69	26. 00	65	96	3, 015, 686	507, 129. 73
Chicago, Illinois	193. 11	390. 33	3, 657	5, 796	180, 326, 470	26, 943, 443. 78
Cincinnati, Ohio	67. 90	122. 19	561	1, 213	37, 905, 370	8, 056, 031. 64
Cleveland, Ohio	88. 38	158. 88	730	1, 650	39, 164, 773	7, 156, 027. 89
Columbus, Ohio	21. 00	34. 75	150	306	1, 679, 085. 62	1, 679, 085. 62
Dayton, Ohio	23. 60	44. 95	117	190	4, 530, 624	1, 225, 429. 00
Denver, Colorado	79. 12	130. 75	461	806	21, 535, 735	7, 518, 400. 14
Des Moines, Iowa	20. 24	28. 81	49	100	2, 993, 138	500, 275. 02
Detroit, Michigan	59. 25	79. 54	296	772	22, 791, 566	2, 370, 197. 61
Evansville, Indiana	21. 40	28. 50	91	71	1, 903, 068	371, 009. 33
Fall River, Massachusetts	12. 29	17. 38	66	109	3, 143, 212	323, 514. 48
Grand Rapids, Michigan	28. 55	42. 36	161	259	5, 013, 495	1, 583, 815. 48
Hartford, Connecticut	18. 00	26. 00	86	152	3, 513, 835	447, 553. 75
Indianapolis, Indiana	45. 00	70. 00	205	482	9, 863, 000	1, 683, 765. 13
Jersey city and Hoboken, New Jersey	46. 65	78. 25	317	880	24, 115, 322	2, 629, 759. 62
Kansas city, Missouri	69. 42	127. 30	652	1, 376	38, 000, 978	12, 344, 487. 44
Lincoln, Nebraska	33. 84	39. 86	61	91	2, 100, 284	411, 500. 00
Los Angeles, California	78. 23	113. 16	250	489	10, 326, 130	5, 593, 081. 07
Louisville, Kentucky	84. 42	128. 00	429	746	21, 281, 584	3, 713, 078. 88
Lowell, Massachusetts	22. 89	26. 26	105	197	4, 156, 392	590, 438. 86
Memphis, Tennessee	35. 00	46. 00	181	178	4, 300, 000	560, 000. 00
Milwaukee, Wisconsin	52. 75	97. 06	248	622	14, 512, 156	4, 208, 956. 24
Minneapolis, Minnesota	58. 00	103. 00	324	616	14, 648, 529	3, 836, 233. 60
Nashville, Tennessee	44. 60	57. 31	93	268	7, 566, 921	2, 372, 144. 99
Newark and Elizabeth, New Jersey	62. 59	76. 34	244	525	20, 068, 884	3, 282, 381. 75
New Haven, Connecticut	20. 85	26. 08	86	227	5, 253, 622	645, 080. 50
New Orleans, Louisiana	112. 59	153. 14	527	876	30, 510, 662	5, 978, 464. 89
New York, New York	180. 56	377. 42	3, 503	12, 778	449, 647, 853	99, 294, 071. 24
Omaha, Nebraska	51. 50	98. 84	200	469	11, 900, 000	6, 500, 000. 00
Paterson, New Jersey	14. 00	17. 00	48	74	2, 000, 000	339, 938. 42
Philadelphia, Pennsylvania	276. 94	351. 12	1, 368	4, 136	165, 117, 627	15, 746, 376. 08
Pittsburg and Allegheny, Pennsylvania	65. 95	110. 50	378	1, 529	46, 099, 227	10, 076, 053. 83
Providence, Rhode Island	44. 95	59. 48	349	787	18, 473, 722	2, 080, 068. 76
Reading, Pennsylvania	27. 22	29. 41	83	143	3, 184, 708	560, 679. 28
Richmond, Virginia	21. 50	36. 00	80	144	3, 302, 460	739, 600. 00
Rochester, New York	35. 83	62. 17	192	510	11, 372, 596	6, 615, 586. 46
Saint Joseph, Missouri	13. 38	22. 88	48	128	2, 014, 868	468, 420. 00
Saint Louis, Missouri	115. 25	192. 45	1, 469	2, 501	67, 800, 252	10, 716, 195. 77
Saint Paul, Minnesota	25. 27	50. 54	227	433	11, 245, 805	2, 653, 585. 54
San Francisco, California	89. 11	156. 22	988	2, 398	80, 619, 005	17, 239, 933. 24
Scranton, Pennsylvania	25. 00	30. 00	56	121	3, 023, 493	881, 721. 86
Syracuse, New York	33. 14	44. 13	137	242	6, 437, 197	1, 433, 661. 25
Toledo, Ohio	32. 09	42. 00	112	267	5, 656, 813	1, 118, 717. 93
Trenton, New Jersey	12. 50	18. 25	53	90	2, 900, 000	375, 000. 00
Troy, New York	16. 48	27. 10	113	328	6, 244, 276	843, 109. 80
Washington, District of Columbia	45. 22	83. 00	451	1, 112	31, 032, 187	3, 552, 659. 95
Wilmington, Delaware	9. 12	9. 64	38	101	2, 216, 036	367, 795. 43
Worcester, Massachusetts	12. 50	20. 40	76	107	4, 851, 574	656, 286. 68

One of the first things noticeable in glancing at this table is that in a number of cases two or more cities are grouped together. The reason is that for street railway purposes these cities form an aggregate whose statistics can not be separated. For example, the population centered at Boston is served by an extensive network of street railways which traverses the cities of Cambridge and Lynn, as well as several smaller towns. Indeed, it is sometimes a matter of the greatest difficulty to determine where a certain street railway line properly belongs. The aim has been to assign to each city not only lines lying within its corporate limits, but also suburban lines tributary to it. The two columns giving the length of lines in these cities offer at once some interesting facts,

STATISTICS OF TRANSPORTATION.

Looking at the first column, which gives the length of street occupied by tracks, it is found that Philadelphia is ahead of all other cities. The lengths assigned to each of the 5 leading cities are as follows:

Philadelphia	276.94	New York	180.56
Boston, Lynn, and Cambridge.....	237.83	Brooklyn	173.24
Chicago.....	193.11		

Looking at the second column, giving the length of all tracks, it is found that as regards the position of Philadelphia the table is reversed and that Chicago takes the first rank, with New York second. The number of miles assigned to each of the 5 cities in this column is as follows:

Chicago.....	390.33	Brooklyn.....	351.53
New York.....	377.42	Philadelphia	351.12
Boston, Lynn, and Cambridge.....	365.76		

The reason for these changes is that in Chicago, New York, and Brooklyn the lines are nearly all laid with double tracks. It is a peculiarity of the Philadelphia and in some degree of the Boston roads that the tracks usually occupy different streets in going to and from a terminus instead of being laid upon the same street. The result is that roads in the cities named traverse a greater length of street in proportion to track length than in New York, Brooklyn, and Chicago. The relatively small length of double tracks in Philadelphia and Boston is probably due to the narrowness of the streets. Another reason is that the advantage of double tracks was not sufficiently understood at the date when most of the Philadelphia lines were built. Of the columns in this table, however, by far the most interesting is that giving the number of passengers carried. These figures show more than any other the importance of street railway traffic to the life of the city, and the column is fruitful of many interesting comparisons. New York is seen to be far in the lead, showing about 2.5 times as many passengers as Chicago, which comes next. This great superiority is due to several causes, chief among which is the fact that an enormous population, resident in neighboring cities, enters New York daily and makes use of its street and elevated railways. A satisfactory comparison among the various cities, however, can not well be made without reducing the passenger traffic to some unit which will show its relation to population. The average number of rides taken by each inhabitant in one year is such a unit, and, other things being equal, is a correct index of the extent to which street railways are used by the people. The statement following shows the population in 1890, the total number of passengers carried, and the average number of rides per inhabitant for all cities of over 100,000 inhabitants:

RELATION OF STREET RAILWAY PASSENGER TRAFFIC TO POPULATION
IN CITIES OF OVER 100,000 INHABITANTS.

CITIES.	Population, 1890.	NUMBER OF PASSENGERS CARRIED.	
		Total.	Average number of rides per inhabitant.
Total	9,905,127	1,701,918,230	172
Baltimore, Maryland.....	434,439	40,659,982	94
Boston, Lynn, and Cambridge, Massachusetts.....	574,232	129,038,563	225
Brooklyn, New York	806,343	147,500,399	183
Buffalo, New York	255,664	16,685,983	65
Chicago, Illinois	1,099,850	180,326,470	164
Cincinnati, Ohio	296,908	37,905,370	128
Cleveland, Ohio	261,353	39,164,773	150
Denver, Colorado	106,713	21,535,735	202
Detroit, Michigan.....	205,876	22,791,566	111
Indianapolis, Indiana	105,436	9,863,000	94
Jersey city and Hoboken, New Jersey.....	206,651	24,115,322	117
Kansas city, Missouri.....	132,716	38,000,978	286
Louisville, Kentucky	161,129	21,281,584	132
Milwaukee, Wisconsin.....	204,468	14,512,156	71
Minneapolis, Minnesota	164,738	14,648,529	89
Newark and Elizabeth, New Jersey	219,594	20,068,884	91
New Orleans, Louisiana.....	242,039	30,510,662	126
New York, New York	1,515,301	449,647,853	297
Omaha, Nebraska	140,452	11,900,000	85
Philadelphia, Pennsylvania.....	1,046,964	165,117,627	158
Pittsburg and Allegheny, Pennsylvania	343,904	46,099,227	134
Providence, Rhode Island.....	132,146	18,473,722	140
Rochester, New York	133,896	11,372,596	85
Saint Louis, Missouri.....	451,770	67,800,252	150
Saint Paul, Minnesota	133,156	11,245,805	84
San Francisco, California	298,997	80,619,005	270
Washington, District of Columbia.....	230,392	31,032,187	135

Upon comparing these averages, New York is found still ahead of all other cities; but it is surprising to note how closely this city is followed by 2 western cities, Kansas city and San Francisco. Then comes Boston, and then Denver, another western city. It would require a careful study of local circumstances to explain all the facts shown in this table. The physical peculiarities of each city, as compact or open, flat or hilly, have much influence upon street railway building and traffic. The suburban passenger business of steam railways is a disturbing element of importance. For example, the steam railways entering Chicago carry yearly about 20,000,000 suburban passengers. This business is in every way similar to that done by the street railways and additional to it.

Comparisons much to our disadvantage are frequently made between the street railway systems of our own and foreign cities, the ground of conclusions favorable to the foreign service being that it is managed with more regard for the public convenience and made to contribute more to municipal expense. However well grounded in some respects these criticisms may be, it is easy to show that in what concerns the most important function of street railways, that of carrying passengers, our own lines have attained a development unapproached in Europe.

No comprehensive and reliable exhibit of the street railway statistics of Europe exists, but an Austrian statistician, von Lindheim, in a volume published in 1888 has brought together such facts as are accessible. In the table which follows the chief cities of the United States are compared with those of Great Britain, the German empire, France, Austria, Holland, and Belgium, the units of comparison used being the length of line per 1,000 inhabitants and the average number of rides per inhabitant in 1 year. The figures for foreign cities are taken directly from von Lindheim, the only change being the reduction of kilometers to miles. His tables do not give the total number of passengers carried in the various cities, but only the deduced average set down in the last column of the table. It is to be borne in mind that the foreign figures are of date 3 years earlier than those of the census.

COMPARATIVE SUMMARY OF STREET RAILWAYS AND POPULATION IN EUROPEAN AND AMERICAN CITIES.

CITIES.	Population.	LENGTH OF LINE. (Miles.)		Average number of rides per inhabitant.	CITIES.	Population.	LENGTH OF LINE. (Miles.)		Average number of rides per inhabitant.
		Total.	Per 1,000 inhabit- ants.				Total.	Per 1,000 inhabit- ants.	
The United States:					German empire—continued:				
New York.....	1,515,301	180.56	0.12	297	Munich.....	261,980	17.39	0.07	40
Chicago.....	1,099,850	193.11	0.18	164	Dresden.....	245,510	27.12	0.11	42
Philadelphia.....	1,046,964	276.94	0.26	158	France:				
Brooklyn.....	806,343	173.24	0.21	183	Paris (<i>b</i>).....	2,992,870	156.18	0.05	.....
Saint Louis.....	451,770	115.25	0.26	150	Marseilles (<i>b</i>).....	360,000	14.42	0.04	.....
Boston, Lynn, and Cambridge..	574,232	237.83	0.41	225	Lyons (<i>b</i>).....	353,954	25.86	0.07	.....
Great Britain:					Austria:				
London and suburbs (<i>a</i>).....	4,720,400	126.04	0.03	31	Vienna.....	1,154,630	59.10	0.05	43
Liverpool.....	579,520	28.16	0.05	51	Buda-Pesth.....	359,000	25.59	0.07	37
Glasgow and suburbs.....	487,948	31.29	0.06	61	Holland:				
Birmingham.....	427,760	30.33	0.07	37	Amsterdam.....	372,330	16.93	0.05	38
German empire:					Belgium:				
Berlin.....	1,315,290	101.90	0.08	87	Brussels (<i>b</i>).....	399,936	29.98	0.07	.....
Hamburg.....	305,690	39.30	0.13	78					

a Figures do not include the underground railways. Von Lindheim gives the total number of passengers carried by omnibuses, tramways, and underground railways at 349,764,700 in 1886, which would be about 74 rides per inhabitant.

b Average number of rides not given.

It appears that in only one case does a foreign city show as great length of line per 1,000 inhabitants as an American city. Hamburg, which leads the foreign list with 0.13 of a mile, is 0.01 of a mile above New York. In the average number of rides per inhabitant the highest number given for a foreign city is but little over one-half the lowest figure among the American cities. The street railway system of Berlin, justly regarded as the most perfect in Europe, carried in proportion to the inhabitants of the city less than one-third as many passengers as the city railways of New York.

Of the total extent of street railway traffic abroad only a rough estimate can be made; but it is probably no great exaggeration to say that the number of passengers carried yearly upon American street railways is twice that of all the rest of the world. According to von Lindheim the aggregate number carried during the year 1886 in England, Germany, France, Austria-Hungary, Holland, Belgium, and Switzerland was 810,107,966, as against 2,023,010,202 in the United States.

STATISTICS OF TRANSPORTATION.

The assignment of street railway statistics to states and to the principal geographical divisions is also of much interest. The table which follows shows, by states and geographical divisions, the same facts which have already been given for principal cities.

GENERAL REVIEW OF STREET RAILWAY STATISTICS, BY STATES AND GEOGRAPHICAL DIVISIONS.

STATES AND GEOGRAPHICAL DIVISIONS.	LENGTH IN MILES—		Number of passenger cars.	Number of employees.	Number of passengers carried in 1 year.	Total cost.
	Of line. (Street length.)	Of all tracks, including sidings.				
The United States.....	5,783.47	8,123.02	32,505	70,764	2,023,010,202	\$389,357,288.87
North Atlantic:						
Maine.....	36.16	40.95	97	170	3,509,255	551,879.97
New Hampshire.....	24.86	26.02	59	91	1,833,473	214,062.51
Vermont.....	13.33	13.41	19	35	574,590	140,866.10
Massachusetts.....	484.58	650.34	3,237	5,583	165,005,835	23,310,674.16
Rhode Island.....	61.34	77.65	397	871	20,577,856	2,492,767.41
Connecticut.....	90.94	107.05	327	668	15,406,349	2,032,496.13
New York.....	679.33	1,168.14	7,580	21,830	656,709,440	132,843,200.80
New Jersey.....	171.09	230.88	784	1,781	55,105,262	8,039,563.35
Pennsylvania.....	502.31	636.81	2,151	6,383	222,465,400	29,778,690.10
Total.....	2,063.94	2,951.85	14,651	37,412	1,141,187,460	199,404,200.53
South Atlantic:						
Delaware.....	9.12	9.64	38	101	2,216,036	367,795.43
Maryland.....	102.57	158.55	493	1,547	40,759,982	6,749,450.39
District of Columbia.....	45.22	83.00	451	1,112	31,032,187	3,565,359.95
Virginia.....	59.17	76.05	169	303	6,567,938	1,537,761.95
West Virginia.....	26.45	30.23	55	133	2,370,091	221,035.21
North Carolina.....	16.19	17.71	34	61	1,144,265	208,500.00
South Carolina.....	27.19	34.25	75	119	3,150,686	543,429.73
Georgia.....	157.48	178.00	327	667	12,749,015	2,691,461.66
Florida.....	22.54	24.53	60	96	1,656,974	240,876.30
Total.....	465.93	611.96	1,702	4,139	101,647,174	16,125,670.61
North Central:						
Ohio.....	340.48	522.08	1,892	4,021	104,188,473	21,456,755.33
Indiana.....	155.90	197.31	505	838	17,171,999	3,526,375.39
Illinois.....	327.59	552.79	4,066	6,314	192,679,119	29,406,755.35
Michigan.....	162.64	209.70	642	1,284	34,060,855	5,183,057.72
Wisconsin.....	107.25	159.49	351	788	17,704,717	4,868,395.61
Minnesota.....	104.42	178.96	591	1,141	28,023,132	6,835,048.61
Iowa.....	143.65	175.47	408	565	9,139,651	3,734,580.00
Missouri.....	225.07	371.70	2,216	4,072	109,146,382	23,848,677.64
South Dakota.....	30.37	30.51	27	43	318,581	320,106.12
Nebraska.....	124.91	179.14	309	634	14,811,447	7,176,698.51
Kansas.....	145.65	176.42	328	614	11,065,531	4,385,159.25
Total.....	1,867.93	2,753.57	11,335	20,314	538,309,887	110,741,609.53
South Central:						
Kentucky.....	131.00	186.30	748	995	25,845,009	4,755,557.37
Tennessee.....	132.40	167.00	377	611	15,310,709	4,353,479.36
Alabama.....	139.06	160.72	264	458	10,168,174	5,883,893.21
Mississippi.....	18.25	20.78	36	41	703,301	120,505.00
Louisiana.....	114.34	155.14	533	881	30,540,662	5,986,464.89
Texas.....	185.19	213.79	472	663	11,809,796	2,392,244.99
Arkansas.....	52.81	64.94	114	181	3,627,375	1,109,992.74
Total.....	773.05	968.67	2,342	3,830	98,005,026	24,602,187.56
Western:						
Montana.....	15.50	17.25	29	57	1,569,050	573,639.75
Wyoming.....	4.75	5.00	11	6	145,388	80,300.00
Colorado.....	99.66	154.79	499	919	22,757,735	7,760,439.14
New Mexico.....	3.50	3.77	12	18	162,260	64,197.38
Arizona.....	6.00	6.00	2	2	5,000	18,000.00
Utah.....	24.00	30.00	64	110	2,590,504	302,082.06
Washington.....	53.58	71.49	147	348	8,532,059	2,214,252.20
Oregon.....	50.49	62.07	139	294	6,270,841	1,696,514.17
California.....	355.14	486.60	1,572	3,315	101,827,818	25,774,245.94
Total.....	612.62	836.97	2,475	5,069	143,860,655	38,483,670.64

The preceding table shows, as indeed might be expected, that those parts of the country which have a relatively large urban population have a corresponding development of street railways. In order to bring out this fact more clearly, a summary follows which gives the average number of rides per inhabitant in each of the principal divisions side by side with the per cent of urban population in these divisions to the total.

COMPARATIVE RATIOS SHOWING THE RELATION OF STREET RAILWAY TRAFFIC TO URBAN POPULATION CONTAINED IN CITIES OF 8,000 AND UPWARD.

GEOGRAPHICAL DIVISIONS.	Total population.	Total number of passengers carried yearly.	Average number of rides per inhabitant.	Per cent of urban population to total.
The United States	62,622,250	2,023,010,202	32	29.20
North Atlantic	17,401,545	1,141,187,460	66	51.81
South Atlantic	8,857,920	101,647,174	11	16.03
North Central	22,362,279	538,309,887	24	25.91
South Central	10,972,893	98,005,026	9	10.45
Western	3,027,613	143,860,655	48	29.99

It will be seen that the ratios of street railway traffic and of urban population given in the last two columns vary in a somewhat similar manner. The North Atlantic division, which has the greatest proportion of urban population, has the greatest street railway traffic relatively to population, and the South Central division has the least of both. However, the Western division, which has only a slightly larger proportion of urban population than the North Central division, shows twice as many rides per inhabitant. This suggests that there is a greater relative development in the cities of the west than in those of other parts of the country. By direct comparison of the number of passengers carried with urban population this is found to be the case.

COMPARATIVE USE OF STREET RAILWAYS BY URBAN POPULATION CONTAINED IN CITIES OF 8,000 AND UPWARD IN THE SEVERAL GEOGRAPHICAL DIVISIONS OF THE UNITED STATES.

GEOGRAPHICAL DIVISIONS.	Urban population.	Average number of rides per urban inhabitant.
The United States	18,284,385	111
North Atlantic	9,015,383	127
South Atlantic	1,419,964	72
North Central	5,793,896	93
South Central	1,147,089	85
Western	908,053	158

Relatively to the number and size of their cities, the people of the far western states make a much greater use of street railways than those in any other part of the country.

The division of the total length of street railway lines in each city into length operated by each of the various kinds of motive power is a matter of great difficulty as well as of great interest. At any date which may be chosen a considerable number of lines are in the process of changing from one motive power to another, and it is very difficult to secure the exact apportionment of their length. The distribution shown in the following tables is intended to be that existing on July 1, 1890. It includes only lines in actual operation on that date. There is therefore no trace of some extensive systems of electric and cable railways which were in various stages of construction on that date, but had not begun regular operation.

STATISTICS OF TRANSPORTATION.

LENGTH OF STREET RAILWAY LINE, SHOWING MILES OPERATED BY VARIOUS KINDS OF MOTIVE POWER, JULY 1, 1890.

A.—IN CITIES OF OVER 50,000 INHABITANTS.

CITIES.	ALL MOTIVE POWER.		DISTRIBUTION OF LENGTH OF LINE BY MOTIVE POWER.				
	Length of line. (Street length.)	Length of all tracks.	Animal.	Electric.	Cable.	Steam.	
						Elevated roads.	Surface roads.
Total	3,205.59	5,149.17	2,292.09	420.34	261.64	63.64	167.88
Albany, New York	20.24	31.47	8.99	11.25			
Atlanta, Georgia	47.42	51.84	28.50	11.42			7.50
Baltimore, Maryland	100.57	156.55	98.94	1.63			
Boston, Lynn, and Cambridge, Massachusetts	237.83	365.76	174.78	63.05			
Brooklyn, New York	173.24	351.53	138.82	6.40		28.02	
Buffalo, New York	44.30	66.27	42.30	2.00			
Camden, New Jersey	14.12	15.00	14.12				
Charleston, South Carolina	20.69	26.00	20.69				
Chicago, Illinois	193.11	390.33	158.76		34.35		
Cincinnati, Ohio	67.90	122.19	49.52	5.82	12.56		
Cleveland, Ohio	88.38	158.88	34.80	44.33	9.25		
Columbus, Ohio	21.00	34.75	21.00				
Dayton, Ohio	23.60	44.95	15.60	8.00			
Denver, Colorado	79.12	130.75	29.25	23.37	21.50		5.00
Des Moines, Iowa	20.24	28.81	2.74	13.00			4.50
Detroit, Michigan	59.25	79.54	46.50	12.75			
Evansville, Indiana	21.40	28.50	10.50				10.90
Fall River, Massachusetts	12.29	17.38	12.29				
Grand Rapids, Michigan	28.55	42.36	19.30		7.75		1.50
Hartford, Connecticut	18.00	26.00	15.00	3.00			
Indianapolis, Indiana	45.00	70.00	45.00				
Jersey city and Hoboken, New Jersey	46.65	78.25	42.75		1.40		2.50
Kansas city, Missouri	69.42	127.30	10.27	10.61	36.32		12.22
Lincoln, Nebraska	33.84	39.86	32.84	1.00			
Los Angeles, California	78.23	113.16	29.90	8.00	14.57		25.76
Louisville, Kentucky	84.42	128.00	79.92	4.50			
Lowell, Massachusetts	22.89	26.26	17.86	5.03			
Memphis, Tennessee	35.00	46.00	30.00				5.00
Milwaukee, Wisconsin	52.75	97.06	32.42	15.00			5.33
Minneapolis, Minnesota	58.00	103.00	40.00				18.00
Nashville, Tennessee	44.60	57.31		29.27			15.33
Newark and Elizabeth, New Jersey	62.59	76.34	62.59				
New Haven, Connecticut	20.85	26.08	20.85				
New Orleans, Louisiana	112.59	153.14	99.89				12.70
New York, New York	180.56	377.42	136.97		6.89	35.62	1.08
Omaha, Nebraska	51.50	98.84	21.00	26.00	4.50		
Paterson, New Jersey	14.00	17.00	14.00				
Philadelphia, Pennsylvania	276.94	351.12	250.05	3.00	20.39		3.50
Pittsburg and Allegheny, Pennsylvania	65.95	110.50	29.52	20.96	15.47		
Providence, Rhode Island	44.95	59.48	41.95		3.00		
Reading, Pennsylvania	27.22	29.41	16.50	3.00			7.72
Richmond, Virginia	21.50	36.00	6.50	15.00			
Rochester, New York	35.83	62.17	31.13	4.70			
Saint Joseph, Missouri	13.38	22.88		13.38			
Saint Louis, Missouri	115.25	192.45	78.84	1.50	19.20		15.71
Saint Paul, Minnesota	25.27	50.54	14.67	5.59	5.01		
San Francisco, California	89.11	156.22	29.70		45.78		13.63
Scranton, Pennsylvania	25.00	30.00		25.00			
Syracuse, New York	33.14	44.13	30.14	3.00			
Toledo, Ohio	32.09	42.00	32.09				
Trenton, New Jersey	12.50	18.25	12.50				
Troy, New York	16.48	27.10	8.70	7.78			
Washington, District of Columbia	45.22	83.00	32.52	9.00	3.70		
Wilmington, Delaware	9.12	9.64	6.12	3.00			
Worcester, Massachusetts	12.50	20.40	12.50				

STREET RAILWAYS.

11

LENGTH OF STREET RAILWAY LINE, SHOWING MILES OPERATED, ETC.—Continued.

B.—BY STATES AND GEOGRAPHICAL DIVISIONS.

STATES AND GEOGRAPHICAL DIVISIONS.	ALL MOTIVE POWER.		DISTRIBUTION OF LENGTH OF LINE BY MOTIVE POWER.				
	Length of line. (Street length.)	Length of all tracks.	Animal.	Electric.	Cable.	Steam.	
						Elevated roads.	Surface roads.
Grand total	5,783.47	8,123.02	4,061.94	914.25	283.22	68.84	455.22
North Atlantic:							
Maine	36.16	40.95	32.98	3.18			
New Hampshire	24.86	26.62	24.86				
Vermont	13.33	13.41	13.33				
Massachusetts	484.58	650.34	383.41	100.17			1.00
Rhode Island	61.34	77.65	54.45	3.89	3.00		
Connecticut	90.94	107.05	77.77	13.17			
New York	679.33	1,168.14	541.25	60.85	7.01	63.64	6.58
New Jersey	171.09	230.88	160.32	6.87	1.40		2.50
Pennsylvania	502.31	636.81	370.14	85.09	35.86		11.22
Total	2,063.94	2,951.85	1,658.51	273.22	47.27	63.64	21.30
South Atlantic:							
Delaware	9.12	9.64	6.12	3.00			
Maryland	102.57	158.55	98.94	3.63			
District of Columbia	45.22	83.00	32.52	9.00	3.70		
Virginia	59.17	76.05	31.17	17.00			11.00
West Virginia	26.45	30.23	5.20	13.25			8.00
North Carolina	16.19	17.71	12.00	4.19			
South Carolina	27.19	34.25	27.19				
Georgia	157.48	178.00	75.21	33.51			48.76
Florida	22.54	24.53	19.14				3.40
Total	465.93	611.96	307.49	83.58	3.70		71.16
North Central:							
Ohio	340.48	522.08	219.85	98.82	21.81		
Indiana	155.90	197.31	117.50	22.50			15.90
Illinois	327.59	552.79	254.73	31.88	34.35		6.63
Michigan	162.64	209.70	106.09	47.30	7.75		1.50
Wisconsin	107.25	159.49	73.49	28.43			5.33
Minnesota	104.42	178.96	70.57	10.84	5.01		18.00
Iowa	143.65	175.47	81.37	40.37	0.06		21.85
Missouri	225.07	371.70	116.13	25.49	55.52		27.93
South Dakota	30.37	30.51	17.35	7.37			5.65
Nebraska	124.91	179.14	90.66	29.75	4.50		
Kansas	145.65	176.42	82.16	41.81	0.69	5.20	15.79
Total	1,867.93	2,753.57	1,229.90	384.56	129.69	5.20	118.58
South Central:							
Kentucky	131.00	186.30	126.50	4.50			
Tennessee	132.40	167.00	60.94	45.38			26.08
Alabama	139.06	160.72	60.75				78.31
Mississippi	18.25	20.78	16.00				2.25
Louisiana	114.34	155.14	101.64				12.70
Texas	185.19	213.79	149.44	31.75			4.00
Arkansas	52.81	64.94	44.56				8.25
Total	773.05	968.67	559.83	81.63			131.59
Western:							
Montana	15.50	17.25	3.50		1.50		10.50
Wyoming	4.75	5.00	4.75				
Colorado	99.66	154.79	49.79	23.37	21.50		5.00
New Mexico	3.50	3.77	3.50				
Arizona	6.00	6.00	6.00				
Utah	24.00	30.00	4.00	20.00			
Washington	53.58	71.49	10.25	25.89	11.19		6.75
Oregon	50.49	62.07	16.69	8.75	5.30		19.75
California	355.14	486.60	207.73	13.75	63.07		70.59
Total	612.62	836.97	306.21	91.26	102.56		112.59

SOURCES OF INFORMATION—ESTIMATES—NOMENCLATURE.

The preceding pages summarize in a concise manner the general features of street railway statistics in the United States. Before proceeding to the more detailed examination of the various exhibits a few points will be considered which are essential to the understanding of the report as a statistical whole.

The summaries already given and discussed include all street railways in operation on July 1, 1890. In so far as the returns of companies were deficient they have been supplemented by information obtained from other sources and by estimates. As this is a matter in regard to which definiteness is indispensable, a precise statement, both in totals and percentages, is given below of the amounts which have been obtained from sources other than the certified returns of street railway companies.

Of the 789 street railways of the United States on July 1, 1890, information has been received from 706. The character of this information may be determined by referring to Table 1 of this report. Of the 706 roads making report, 681 were in independent operation on July 1, 1890; 5 were leased but made report of mileage as though operating independently; 11 were leased in such a manner that their mileage was included in the operated mileage of the lessee companies; the 9 remaining were by the character of the lease practically consolidated into companies making report of mileage and operation. The greater portion of the deficient roads were horse railways of the smallest class or electrical railways which had been put into operation during the census year.

As already stated, the summaries given at the opening of the report include all street railways in the United States. The following statement shows in detail to what extent it was necessary to supplement the certified returns of street railway companies to obtain the totals already given:

STATEMENT SHOWING STATISTICS INCLUDED IN SUMMARIES AND OBTAINED FROM SOURCES OTHER THAN CERTIFIED RETURNS OF STREET RAILWAY COMPANIES.

ITEMS.	Grand total.	From certified returns.	FROM OTHER SOURCES.	
			Amount.	Per cent.
Length of line	5,783.47	5,184.49	598.98	10.36
Track length	8,123.02	7,465.19	657.83	8.10
Passenger cars	32,505	30,914	1,591	4.89
Employés	70,764	67,770	2,994	4.23
Passengers	2,023,010,202	1,919,172,240	103,837,962	5.13
Cost	\$389,357,288.87	\$372,995,024.44	\$16,362,264.43	4.20

The figures in the second column are aggregates made up from the detailed tables given in the body of the report. The third column shows additions made to these figures in order to obtain the totals given in the first column, which are those that appear in the summaries. The last column shows in percentages the relation of the third column to the first.

The amounts included in the column headed "From other sources" were arrived at in the following manner: a series of tabulations was made, first, of all lines making no report, and, second, of lines whose reports were deficient in one or more of the six items included in the above statement. The facts lacking were then supplied from technical journals, from information obtained by correspondence, and by estimates based upon the statistics reported by roads believed to be similar in character to those for which the facts were lacking.

In preparing summaries by cities and states it was in all cases attempted to show the number of passengers carried during a full year. Thus, if a company had been operating only 6 months at the time its report was made, the number of passengers carried was doubled before being inserted in the summaries. This mode of estimation, though open to criticism, is perfectly definite and is believed to be the best practicable.

In the tables which make up the body of this report, and which present the statistics of each road separately, the facts given are derived exclusively from the certified reports of responsible officers of the companies. Figures are sometimes omitted where they appear inconsistent or unreliable, but none are interpolated, except such as may be directly computed from those reported.

In the main the plan followed throughout these tables has been to set down whatever facts were reported by the various companies, even when certain other information pertaining to the same or to a different table was lacking. When, therefore, the entries for any road are incomplete, it is to be understood that either the information could not be obtained at all or that it was for some reason rejected.

It is to be noticed that the item of "interest", entered in the table of receipts and expenditures, is not necessarily the same as the interest on funded debt in the table relating to capital stock, etc. In the former case the item of interest frequently includes interest on current liabilities as well as interest on funded debt.

A similar remark applies to other items which are reported and compiled in more than one of the tables. They are set down as given by the company reporting, and the discrepancies which occasionally appear are explained, so far as the information obtained by correspondence is adequate, by foot notes. Such are the items "capital

stock outstanding" and "funded debt outstanding", which appear in Tables 6 and 8, and the item "cost of road and equipment", which appears in Tables 3 and 8. A comparison of Tables 7 and 9 reveals the fact that the companies do not interpret in a uniform manner the terms "taxes and licenses". Some include under this head all the expenditures grouped together in Table 9 and some do not. The great variety of the forms in which street railway companies keep their accounts renders these differences of classification unavoidable.

In collecting statistics of the length of street railways considerable difficulty arose from the ambiguity of such terms as "length of line", "length of single track", and "length of double track" when applied to street railways. For example, in the statistics collected by the railway commissioners of New York "length of line" means length of roadbed, or, what is usually the same thing, length of street occupied, while in the reports of the railway commissioners of Massachusetts the same term denotes length of all tracks except sidings; accordingly, in the case of a road having 10 miles of double track, the "length of line" in New York would be 10 miles and in Massachusetts 20 miles. On account of such ambiguities as this it was necessary to fix upon some definite nomenclature, and to attempt by careful explanation to secure returns in accordance with it.

As used in these tables, the term "length of line" means length of roadbed, or, in case of a railway running entirely upon streets, length of street occupied. In determining "length of all tracks" switches and sidings are included, and double track is reckoned as 2 tracks. Where the word "length" alone is used, length of line is to be understood.

SUMMARIES OF STATISTICAL TABLES.

The following is an outline of the statistical tables commencing on page 26:

STATISTICS FOR THE DECADE 1880 TO 1890.

Increase in length of street railways—
In cities of over 50,000 inhabitants.
By states and geographical divisions.

STATISTICS FOR THE CENSUS YEAR.

TABLE 1.—List of street railway companies reporting, showing length of line, motive power, and number of stockholders.

TABLE 2.—Description of road and equipment.
Railways operated by animal power.
Electric railways.
Cable railways.
Steam passenger railways.
Railways using more than one kind of motive power, the statistics for the several kinds not being separable.

TABLE 3.—Cost of road and equipment.
Railways operated by animal power.
Electric railways.
Cable railways.
Steam passenger railways.
Railways using more than one kind of motive power, the statistics for the several kinds not being separable.

TABLE 4.—Employés and wages.
Railways operated by animal power.
Electric railways.
Cable railways.
Steam passenger railways.
Railways using more than one kind of motive power, the statistics for the several kinds not being separable.

TABLE 5.—Passenger traffic.
Railways operated by animal power.
Electric railways.

TABLE 5.—Passenger traffic—continued.

Cable railways.
Steam passenger railways.
Railways using more than one kind of motive power, the statistics for the several kinds not being separable.

TABLE 6.—Capital stock, funded debt, interest, and dividends.

Railways operated by animal power.
Electric railways.
Cable railways.
Steam passenger railways.
Railways using more than one kind of motive power, the statistics for the several kinds not being separable.

TABLE 7.—Income and expenditure.

Railways operated by animal power.
Electric railways.
Cable railways.
Steam passenger railways.
Railways using more than one kind of motive power, the statistics for the several kinds not being separable.

TABLE 8.—Balance sheet.

Railways operated by animal power.
Electric railways.
Cable railways.
Steam passenger railways.
Railways using more than one kind of motive power, the statistics for the several kinds not being separable.

TABLE 9.—Taxes, licenses, and other public charges.

Railways operated by animal power.
Electric railways.
Cable railways.
Steam passenger railways.
Railways using more than one kind of motive power, the statistics for the several kinds not being separable.

The arrangement of statistics for the census year requires some explanation. Table 1 is the fundamental table, and in it are found the most general facts relating to all companies reporting. The roads are arranged primarily by states in alphabetical order, and secondarily by cities in each state, also in alphabetical order. In all the remaining tables the distinction of motive power is made the primary basis of classification, the roads using each kind of motive power being secondarily arranged by states and cities, as in Table 1. The aggregate amounts in summary tables shown on pages 17 to 23, inclusive, for the several items of street railway traffic are the results obtained from the reports of such corporations as made a complete report for each respective exhibit. Such corporations as made only partial and incomplete reports are not included.

STATISTICS OF TRANSPORTATION.

INCREASE IN LENGTH OF STREET RAILWAYS, 1880-1890.

This table shows for each state and for cities of over 50,000 inhabitants the length of street railways in each year from 1880 to 1890, inclusive. The increase shown is, therefore, for 10 years. It should be noticed, however, that the length of line given for 1890 is of date July 1, and that the increase of that year over 1889 is in reality for a period of only 6 months. Without understanding this fact it would be impossible to explain a smaller increase during 1890 than during 1889, since the construction of street railways never went on so rapidly as during the former year. The following summary shows the increase and per cent of increase in the length of street railways in the United States for each of the 10 years:

INCREASE AND PER CENT OF INCREASE IN THE LENGTH OF STREET RAILWAYS
IN THE UNITED STATES, 1880-1890.

YEARS.	Total length. (Miles.)	INCREASE.	
		Miles.	Per cent.
10 years		3,733.31	182.10
1880	2,050.16		
1881	2,150.09	99.93	4.87
1882	2,342.20	192.11	8.93
1883	2,506.14	163.94	7.00
1884	2,680.31	174.17	6.95
1885	2,938.29	257.98	9.63
1886	3,268.58	330.29	11.24
1887	3,890.22	621.64	19.02
1888	4,499.49	609.27	15.66
1889	5,285.11	785.62	17.46
1890 (a)	5,783.47	498.36	9.43

a 6 months.

It will be seen that the increase during the 6 months of 1890 is relatively greater than for any other year of the decade. Comparing the first 5 years of the decade with the last 5, a still more striking result is observed. During the first 5 years the increase was 888.13 miles; during the last 5 it was 2,845.18 miles.

The following summary shows the increase and per cent of increase during the decade for each of the geographical divisions:

INCREASE AND PER CENT OF INCREASE IN THE LENGTH OF STREET RAILWAYS,
BY GEOGRAPHICAL DIVISIONS.

GEOGRAPHICAL DIVISIONS.	LENGTH OF LINE.		INCREASE.	
	1890	1880	Miles.	Per cent.
The United States	5,783.47	2,050.16	3,733.31	182.10
North Atlantic	2,063.94	1,035.60	1,028.34	99.30
South Atlantic	465.93	135.96	329.97	242.70
North Central	1,867.93	508.46	1,359.47	267.37
South Central	773.05	242.63	530.42	218.61
Western	612.62	127.51	485.11	380.45

As might be expected, the Western division shows the greatest per cent of increase, and the North Central division the next greatest. The increase in the two southern divisions also shows rapid construction in those parts of the country.

A comparison among the principal cities based on the growth of their street railway systems during the 10 years is of considerable interest. The summary here given embraces all cities having a population of over 100,000 inhabitants:

INCREASE AND PER CENT OF INCREASE IN THE LENGTH OF STREET RAILWAYS IN
CITIES OF MORE THAN 100,000 INHABITANTS.

CITIES.	LENGTH OF LINE.		INCREASE.	
	1890	1880	Miles.	Per cent.
Total	2,505.70	1,323.81	1,181.89	89.28
Baltimore, Maryland	100.57	46.54	54.03	116.09
Boston, Lynn, and Cambridge, Massachusetts	237.83	95.56	142.27	148.88
Brooklyn, New York	173.24	111.65	61.59	55.16
Buffalo, New York	44.30	25.44	18.86	74.14
Chicago, Illinois	193.11	80.47	112.64	139.98
Cincinnati, Ohio	67.90	48.18	19.72	40.93
Cleveland, Ohio	88.38	26.41	61.97	234.65
Denver, Colorado	79.12	8.00	71.12	889.00
Detroit, Michigan	59.25	26.56	32.69	123.08
Indianapolis, Indiana	45.00	15.00	30.00	200.00
Jersey city and Hoboken, New Jersey	46.65	15.40	31.25	202.92
Kansas city, Missouri	69.42	9.50	59.92	630.74
Louisville, Kentucky	84.42	39.25	45.17	115.08
Milwaukee, Wisconsin	52.75	11.41	41.34	362.31
Minneapolis, Minnesota	58.00	9.00	49.00	544.44
Newark and Elizabeth, New Jersey	62.59	37.54	25.05	66.73
New Orleans, Louisiana	112.59	81.89	30.70	37.49
New York, New York	180.56	130.55	50.01	38.31
Omaha, Nebraska	51.50	4.50	47.00	1,044.44
Philadelphia, Pennsylvania	276.94	258.17	18.77	7.27
Pittsburg and Allegheny, Pennsylvania	65.95	38.63	27.32	70.72
Providence, Rhode Island	44.95	35.30	9.65	27.34
Rochester, New York	35.83	13.02	22.81	175.19
Saint Louis, Missouri	115.25	63.29	51.96	82.10
Saint Paul, Minnesota	25.27	6.00	19.27	321.17
San Francisco, California	89.11	57.08	32.03	56.11
Washington, District of Columbia	45.22	29.47	15.75	53.44

The western cities again show the largest percentage of increase. Boston and its neighborhood shows, however, the greatest absolute increase, and Chicago is second. Nothing in the table is more notable than the surprising length of street railways already existing in Philadelphia in 1880. Making all allowance for the peculiarities of the street railway lines in that city, it appears to have been at that time far in advance of all others. Indeed, the comparative openness of Philadelphia and its consequent wide extent as compared with its population render the city peculiarly suited to an extensive development of street railways.

The summary just given furnishes a basis for a comparison of the relation between length of street railway lines and population in 1880 and 1890. The summary given on the following page shows the length for each 1,000 inhabitants at the beginning and at the end of the decade.

STATISTICS OF TRANSPORTATION.

COMPARISON OF STREET RAILWAYS AND POPULATION, 1890-1880, FOR CITIES HAVING OVER 100,000 INHABITANTS.

CITIES.	1890			1880		
	Population.	Length of street railway line. (Miles.)		Population.	Length of street railway line. (Miles.)	
		Total.	Per 1,000 inhabitants.		Total.	Per 1,000 inhabitants.
Total	9,905,127	2,505.70	0.25	6,844,807	1,323.81	0.19
Baltimore, Maryland	434,439	100.57	0.23	332,313	46.54	0.14
Boston, Lynn, and Cambridge, Massachusetts	574,232	237.83	0.41	453,782	95.56	0.21
Brooklyn, New York	806,343	173.24	0.21	566,663	111.65	0.20
Buffalo, New York	255,664	44.30	0.17	155,134	25.44	0.16
Chicago, Illinois	1,099,850	193.11	0.18	503,185	80.47	0.16
Cincinnati, Ohio	296,908	67.90	0.23	255,139	48.18	0.19
Cleveland, Ohio	261,353	88.38	0.34	160,146	26.41	0.16
Denver, Colorado	106,713	79.12	0.74	35,629	8.00	0.22
Detroit, Michigan	205,876	59.25	0.29	116,340	26.56	0.23
Indianapolis, Indiana	105,436	45.00	0.43	75,056	15.00	0.20
Jersey city and Hoboken, New Jersey	206,651	46.65	0.23	151,721	15.40	0.10
Kansas city, Missouri	132,716	69.42	0.52	55,785	9.50	0.17
Louisville, Kentucky	161,129	84.42	0.52	123,758	39.25	0.32
Milwaukee, Wisconsin	204,468	52.75	0.26	115,587	11.41	0.10
Minneapolis, Minnesota	164,738	58.00	0.35	46,887	9.00	0.19
Newark and Elizabeth, New Jersey	219,594	62.59	0.29	164,737	37.54	0.23
New Orleans, Louisiana	242,039	112.59	0.47	216,090	81.89	0.38
New York, New York	1,515,301	180.56	0.12	1,206,299	130.55	0.11
Omaha, Nebraska	140,452	51.50	0.37	30,518	4.50	0.15
Philadelphia, Pennsylvania	1,046,964	276.94	0.26	847,170	258.17	0.30
Pittsburg and Allegheny, Pennsylvania	343,904	65.95	0.19	235,071	38.63	0.16
Providence, Rhode Island	132,146	44.95	0.34	104,857	35.30	0.34
Rochester, New York	133,896	35.83	0.27	89,366	13.02	0.15
Saint Louis, Missouri	451,770	115.25	0.26	350,518	63.29	0.18
Saint Paul, Minnesota	133,156	25.27	0.19	41,473	6.00	0.14
San Francisco, California	298,997	89.11	0.30	233,959	57.08	0.24
Washington, District of Columbia	230,392	45.22	0.20	177,624	29.47	0.17

It appears that, notwithstanding the rapid increase in the population of these cities, the street railway lines have sufficiently increased to make the length of line per thousand inhabitants nearly 32 per cent greater in 1890 than in 1880.

STATISTICS OF STREET RAILWAYS FOR THE CENSUS YEAR.

TABLE 1.—LIST OF COMPANIES REPORTING, SHOWING LENGTH OF LINE, MOTIVE POWER, AND NUMBER OF STOCKHOLDERS.

This is the first of the tables in which the statistics of individual street railway lines are given separately. There are 706 companies entered, many of which use more than one kind of motive power. If lines operated by the same company but using different kinds of motive power are regarded as distinct, there will be 787 lines, divided as follows: animal, 524; electric, 128; cable, 59 (including 9 cable inclines and 4 leased roads); steam, 76.

The unit of this table is the corporation, and accordingly street railways operated by a single corporation appear as one, although several kinds of motive power may be used. In all succeeding tables the statistics of such corporations are distinguished, as far as possible, on a basis of motive power, and scattered through the several divisions of each table accordingly. Besides the name of the corporation the following facts are given: length of line owned and of line operated, kinds of motive power used, date of corporate charter, number of stockholders, and period of time covered by its report. It happened in some cases that under date of corporate charter several dates were reported by 1 company. In such cases it was assumed that the latest date given represented the date of the charter under which the company was operating when it made its report.

It is important to understand that neither the "length of line owned" nor "length of line operated" given in this table is necessarily the same for any particular city as the total length of line assigned to the same city in the summaries. Length of line owned would be the same had complete reports been received from all companies owning line, but the total length of line operated often exceeds the total length of line in a city, for the reason that 2 companies operate the same line for a longer or shorter distance. This line makes part of the operated mileage of both companies, and to get the total mileage for the city by adding all operated mileage reporting would, therefore, involve a duplication.

The columns giving the two dates determining the time covered by the report of each company show that the period covered is not uniform. In most instances it closes on July 1, 1890, but in a considerable number on some other date, as, for example, on December 31, 1890. Although the reports close at various dates, no company is included in these statistics whose line was not in actual operation on July 1, 1890. All lines which were in operation on that date are embraced in this report, either in the tables or in the summaries including estimates already given.

Table 1 having given a comprehensive review of the roads reporting in their corporate capacity, the succeeding tables deal with their statistics more in detail.

TABLE 2.—DESCRIPTION OF ROAD AND EQUIPMENT.

In this table the classification of street railways by motive power is for the first time made the primary one. Besides the 4 classes, animal, electric, cable, and steam, a fifth is required, which includes those companies that use more than one kind of motive power but can not give the statistics for each separately.

The table shows the chief facts reported by the various roads under the head of "Description of road and equipment". Some of the facts, as "length of track", are of the same character for each kind of motive power; others, as the "number of dynamos", "length of cables", etc., are peculiar to some one kind of motive power.

It will be noticed that several of the most important cable and electric lines are included among those which use more than one kind of motive power and can not give separate statistics for each. The item "total weight of rail, estimated in tons of 2,000 pounds" represents an estimate prepared in the Census Office and based upon the weights of rail used by each company and the length of track laid with each weight. Its chief interest is in a comparison of the average weight of rail in use for the various kinds of motive power. The following table gives a comparative statement of the average weight per yard of rail for each class of lines:

STATEMENT SHOWING AVERAGE WEIGHTS OF RAIL.

MOTIVE POWER.	LENGTH—		Total weight of rail. (Tons of 2,000 pounds.)	Average weight per yard. (Pounds.)
	Of track. (Miles.)	Of rail. (Yards.)		
Total	7, 438. 76	26, 184, 435. 20	574, 938. 56	43. 91
Animal	4, 583. 20	16, 132, 864. 00	332, 263. 93	41. 19
Electric	1, 013. 52	3, 567, 590. 40	76, 526. 81	42. 90
Cable	422. 89	1, 488, 572. 80	39, 417. 91	52. 96
Steam	621. 28	2, 186, 905. 60	49, 299. 90	45. 09
Mixed and inseparable	797. 87	2, 808, 502. 40	77, 430. 01	55. 14

Only those roads are included which report both length of track and weight of rail. The high average weight of rail shown in this table can not but surprise even those familiar with the tendency to the use of heavy rail both in constructing new lines and reconstructing old ones. It is probable that in no particular of street railway building have more important improvements taken place during recent years than in the weight and construction of rail.

In addition to the items shown in total above, the tables show in the case of every cable and electric road whether it was originally built for cable or electricity or whether these motive powers were substituted for some other. They show also the per cent of rise in maximum grade and its length in feet, and in the case of cable roads the radius of the sharpest curve upon the line. The following is a classified comparative statement of the grades upon electric and cable roads reporting:

COMPARATIVE GRADES OF ELECTRIC AND CABLE RAILROADS.

ITEMS.	Electric railways.	Cable railways.
Maximum grade (per cent)	15. 48	80. 00
Number of roads reporting grades over 15 per cent	1	13
Number of roads reporting grades of from 12 to 15 per cent	2	2
Number of roads reporting grades of from 10 to 12 per cent	3	5
Number of roads reporting grades of from 5 to 10 per cent	66	13
Number of roads reporting maximum grades of 5 per cent and under	42	6

This statement points to the superiority of cable railways upon the steepest grades. One-half of the cable railways operate over grades of more than 10 per cent, that is, they have a rise of more than 10 feet in every hundred. On the other hand, only a small fraction of the electric railways have grades exceeding 10 per cent. The maximum grade upon electric railways is 15.48 per cent; on cable railways, 80.00 per cent. The statement embraces only cable railways of the usual kind, and does not include the cable inclines of Cincinnati, Pittsburg, and other cities.

In case of electric and cable railways the date of commencing operation is of considerable interest, and has in most cases been obtained. The following statement shows this information. In preparing the statement by years previously given those lines whose date of commencing operations was not reported were assigned to years from the best information available. The figures preceding the dates correspond with those in the first column of Table 1, showing the names of the companies.

DATE OF COMMENCING OPERATIONS.

ELECTRIC RAILWAYS.

No.	DATE.			No.	DATE.			No.	DATE.			No.	DATE.		
	Month.	Day.	Year.		Month.	Day.	Year.		Month.	Day.	Year.		Month.	Day.	Year.
71	April	1	1890	250	October	31	1889	384	April	28	1890	552	August	15	1888
79	May	17	1890	252	July	4	1889	386	September	25	1889	566	May	1	1890
83	December	24	1889	253	July	4	1888	391			1888	582	January	17	1890
84	February	6	1890	255	July		1890	406	January	1	1888	591			1888
87	May	1	1888	257	October	1	1889	415	July	24	1889	595	March	4	1890
90	September		1888	261	November	1	1888	425	January	3	1888	597	April	1	1888
104	March	5	1888	268	August	1	1889	468	July	3	1889	599	November	27	1888
109	October	17	1888	270	June	19	1889	481	November	29	1888	602	December		1888
110	April	25	1890	273	October	1	1889	487	June	22	1890	604	June	23	1890
121	August	23	1889	274	October		1889	488	March		1890	607	April	1	1888
123	October	5	1889	278	June	9	1889	489	March	1	1888	608	December	9	1889
125	June	1	1890	279	June	6	1890	492	November	3	1888	611	August	7	1889
126	June	16	1890	283	September	20	1889	495	February	10	1890	625	June	21	1890
150	September	1	1889	284	January	3	1890	496	June	2	1889	629	July	4	1889
151	December	4	1889	286	September	15	1889	497	August	5	1889	641	May	22	1889
156	October	16	1889	287	May		1887	500	December	7	1889	646	May	15	1890
157	October		1889	289	October		1886	501	May		1889	647	May	15	1890
158	September	15	1889	293	April	15	1890	503	December	19	1888	652	December	6	1889
166			1889	294	April	7	1887	504	August	7	1889	657	May	25	1890
174	August		1888	296	December	30	1889	508	April	7	1890	663	August	18	1889
181	August		1889	297	September	2	1888	519	July	1	1887	667	October	16	1888
182	July	1	1890	304	February	19	1890	521	August	8	1887	680	April	7	1889
191	November	7	1888	305	June	30	1889	523	December	23	1889	681	November	17	1889
193	August	12	1888	318	September	8	1889	525	January	15	1890	686	December	15	1888
195	October		1889	319	March	8	1890	526	May	23	1890	690	March	27	1888
202	November	28	1889	323	December	1	1889	529	December	12	1888	691	August	1	1886
205	April	6	1890	324	September	15	1889	536	January	1	1890	692	September	4	1889
222	April	1	1889	325	January	3	1889	543	May	27	1890	700	April	20	1890
228	June		1889	361	July		1889	550	January	14	1888	701	April	3	1890
247	May	17	1890	368			1887	551	July	1	1889	705	June	1	1890
249	April	5	1890												

CABLE RAILWAYS.

31	June	8	1889	83	December	22	1888	322	November		1889	499	March	12	1888
33	October	14	1885	112	May	1	1890	329	November	23	1887	540	February	22	1890
34	July	14	1886	142	January	14	1882	334	March	20	1888	572	May	25	1885
38			1886	145	March	26	1888	337	April	20	1890	579	February	24	1890
58	February	15	1878	147	July	1	1890	338	April	15	1886	580	January	1	1889
61	March	28	1888	212	April	24	1888	346	May	1	1889	592	October		1888
62	August	23	1879	291	April	18	1888	361	December		1887	613	January	1	1890
63	August	21	1883	304	January		1888	453	September	24	1883	677	March	13	1889
65	August		1889	315	September	15	1887	460	August	31	1885	678	September	29	1888
67	January	16	1882	317	June	26	1885	497	September	29	1887	679	April	6	1890
68	March		1877	318	May	1	1887	498	October	10	1886	683	September	1	1889
81	October		1889	321	May	28	1888								

TABLE 3.—COST OF ROAD AND EQUIPMENT.

Great pains were taken to procure returns of the cost of street railways in the belief that these returns would be the best means of determining the total amount of capital invested in this kind of transportation. It is well understood that the capital stock and funded debt outstanding may or may not represent an actual investment of capital. It is doubtless true that the records of cost are also in many respects an unsatisfactory guide, but it is believed that they answer the purpose much better than the returns of capital stock and funded debt. The summaries showing the total cost of street railways in the United States have already been given. The tables in the body of the report give the returns in detail for roads reporting. Besides the items of cost themselves, two deduced items have been calculated for each road reporting sufficient data, namely, cost of construction and real estate per mile owned, and the cost of equipment per mile operated. The fitness of assigning cost of construction and real estate to miles owned and cost of equipment to miles operated is obvious. Many roads own lines but no equipment, and many others which own equipment operate it over lines which they do not own.

The statistics of the cost of street railways are of interest also as the basis of important comparison between the statistics of the various kinds of motive power and the statistics of the cost of different items pertaining to the same kind of motive power.

The following table gives a comparative summary of cost of each of the five classes of roads making complete reports. It will be noticed that in this table cost of the road is given in two principal items, viz, "total cost of construction and real estate" and "total cost of equipment".

COMPARATIVE STATEMENT SHOWING COST PER MILE OF LINE.

ITEMS.	Animal.	Electric.	Cable.	Steam.	Mixed and inseparable.
Total cost of construction and real estate	\$99,812,886.27	\$14,074,049.13	\$33,374,627.39	\$35,777,187.08	\$65,583,242.72
Miles of line to which this cost pertains	2,388.48	463.70	166.48	350.31	734.12
Cost of construction and real estate per mile	\$41,789.29	\$30,351.63	\$200,472.29	\$102,130.08	\$89,335.86
Total cost of equipment	\$22,344,285.14	\$3,873,544.21	\$3,827,436.62	\$4,348,511.10	\$12,022,289.54
Miles of line to which this cost pertains	2,473.56	464.93	167.13	361.83	855.43
Cost of equipment per mile	\$9,033.25	\$8,331.46	\$22,900.96	\$12,018.11	\$14,054.09
Total cost per mile	\$50,822.50	\$38,683.09	\$223,373.25	\$114,148.19	\$103,389.95

Any one who may compare the statistics of cost per mile given in this table with those given in a special report on the economy of motive power, based upon statistics of 50 lines of street railway, will see that the cost per mile obtained from the total number of roads reported is less for each kind of motive power than that shown in the report referred to. The reason is to be found in the fact that the roads included among the 50 lines of street railway selected were nearly all of recent construction and more costly than the average. It is probable that they represent more nearly the cost of the best type of construction than the figures which are now given.

TABLE 4.—EMPLOYÉS AND WAGES.

A statement of the total number of employés, distributed by cities, by states, and by motive power, has been included in the summaries previously given.

In the tables the length of time covered by the report of each road is given in connection with statistics of employés and wages, and much which can not be learned from the totals may therefore be learned by detailed study.

TABLE 5.—PASSENGER TRAFFIC.

The total number of passengers carried yearly in the United States in each state and in the principal cities has already been given in previous summaries. In the detailed tables this information is given separately for each road reporting, and in addition the following facts will be found: the total number of passengers per mile operated, the total receipts from passengers, the average fare, the number of miles run by cars, and the average receipts per car mile. The length of time covered by each report is also given, this item being frequently necessary to explain the small returns for certain roads. The following summaries show the totals for roads making full reports and the deductions from those totals:

COMPARATIVE DATA FOR USE IN CALCULATING AVERAGES—PASSENGER TRAFFIC.

ITEMS.	Animal.	Electric.	Cable.	Steam.	Mixed and inseparable.
Length of line (miles)	2,633.87	485.76	159.72	378.28	718.18
Car mileage	185,661,500	22,197,910	36,636,636	47,543,267	91,138,772
Number of passengers	822,299,620	64,774,254	176,998,753	249,629,285	461,472,773
Receipts from passengers	\$39,076,227.42	\$3,136,141.27	\$7,833,167.39	\$12,654,981.24	\$22,798,848.28

STATISTICS OF TRANSPORTATION.

DEDUCTIONS FROM COMPARATIVE DATA.

MOTIVE POWER.	Passengers carried per mile of line.	AVERAGE RECEIPTS FROM PASSENGERS.	
		Per pas- senger. (Cents.)	Per car mile. (Cents.)
Animal	312, 202	4. 75	21. 05
Electric.....	133, 346	4. 84	14. 13
Cable	1, 108, 182	4. 43	21. 38
Steam	659, 906	5. 07	26. 62
Mixed and inseparable.....	642, 559	4. 94	25. 02

It is somewhat surprising to note how much less is the average fare upon cable railways than upon any of the others. This is partly explained, however, by the fact that the cable roads are all in large cities where the fares are for the most part lower than in smaller towns. A considerable number of street railways still charge an average fare of more than 5 cents. This clearly appears from the following summary:

NUMBER OF ROADS WHOSE RECEIPTS FROM PASSENGERS AVERAGE OVER 5 CENTS.

Animal	81
Electric	20
Cable	5
Steam	28
Mixed	8
Total	142

The column showing passengers carried per mile of line shows a relation among the several kinds of motive power very similar to that arrived at in a special report upon the economy of motive power. The figures, however, are all considerably less, which is sufficiently explained by recalling the fact that the roads there given were selected as being the ones making most satisfactory returns. It is natural that such roads should show larger traffic averages. The smallness of the average receipts per car mile shown by electric railways is to be explained by the fact that these lines are for the most part new and the traffic upon them not yet developed.

TABLE 6.—CAPITAL STOCK, FUNDED DEBT, INTEREST, AND DIVIDENDS.

It is needless to say that the interest of these returns to investors and to others interested in the financial status of street railways centers in those tables which relate to capital stock and funded debt and to income and expenditure. It would be too much to claim that every fact presented in the tables is to be implicitly relied upon and that a true showing is made of the condition of every road. Notwithstanding the good will with which the companies have for the most part received the investigation, such a result, obtained with the time and means at the disposal of the census, would be incredible. It is true, however, that all the returns are signed by responsible officers of companies, that they comprise nearly all of the more important roads, and that every return has been minutely scrutinized and every doubtful point made the subject of searching inquiry.

In the case of these tables, as of all others, the most important results are to be gained only by a detailed examination. But little can be presented in totals.

The tables contain a statement of the total outstanding capital stock and funded debt of each road, and of the payments and accruals of dividends and interest upon this stock and debt.

The following summary covers only roads reporting the payment of dividends or interest, as the case may be, for a full year:

SUMMARY OF CAPITAL STOCK, FUNDED DEBT, DIVIDENDS, AND INTEREST.

ITEMS	Capital stock issued and out- standing.	Dividends declared.	Rate of dividends declared. (Per cent.)	Funded debt issued and out- standing.	Interest ac- crued.	Rate of interest paid. (Per cent.)
All motive powers	\$163, 506, 544. 50	\$11, 600, 334. 54	7. 09	\$103, 404, 259. 99	\$5, 870, 710. 72	5. 67
Animal	62, 415, 614. 50	4, 390, 519. 54	7. 03	34, 361, 904. 99	1, 997, 664. 92	5. 81
Electric.....	4, 034, 900. 00	225, 697. 00	5. 59	3, 230, 300. 00	187, 505. 00	5. 80
Cable	6, 437, 900. 00	653, 587. 00	10. 15	4, 076, 000. 00	218, 160. 00	5. 35
Steam	25, 917, 180. 00	1, 561, 512. 00	6. 03	19, 326, 200. 00	1, 181, 512. 00	6. 11
Mixed and inseparable.....	64, 700, 950. 00	4, 769, 019. 00	7. 37	42, 499, 855. 00	2, 285, 868. 80	5. 38

TABLE 7.—INCOME AND EXPENDITURE.

The following is a summary of the facts reported under the head of receipts and expenditures:

COMPARATIVE SUMMARY OF RECEIPTS AND EXPENDITURES.

ITEMS.	All motive power.	Animal.	Electric.	Cable.	Steam.	Mixed and inseparable.
Receipts:						
Grand total	\$91,721,844.74	\$38,403,748.62	\$3,220,396.33	\$3,798,414.36	\$12,709,627.93	\$33,589,657.50
From operation:						
Total	90,617,210.71	37,866,930.79	3,215,268.38	3,771,801.78	12,541,249.61	33,221,960.15
Passengers	89,711,829.39	37,536,924.08	3,125,871.49	3,718,541.80	12,464,962.10	32,865,529.92
Other sources	905,381.32	330,006.71	89,396.89	53,259.98	76,287.51	356,430.23
Rentals and miscellaneous	1,104,634.03	536,817.83	5,127.95	26,612.58	168,378.32	367,697.35
Expenditures:						
Grand total	87,388,006.65	37,066,110.78	2,994,802.27	3,476,075.55	11,700,492.06	32,150,525.99
Operating expenses	62,011,184.93	27,893,077.33	2,266,422.02	2,477,624.34	7,192,671.91	22,181,389.33
Fixed charges:						
Total	13,978,902.88	4,700,649.25	450,551.05	564,497.95	2,939,075.36	5,324,129.27
Rentals	2,561,342.50	615,232.01	19,436.55	1,525.30	288,631.00	1,636,517.64
Taxes and licenses	3,308,190.49	1,674,457.72	59,060.99	77,282.65	501,447.31	995,941.82
Interest	8,086,215.99	2,403,736.36	371,865.51	485,690.00	2,148,997.05	2,675,927.07
Miscellaneous	23,153.90	7,223.16	188.06			15,742.74
Payments from net income:						
Dividends	10,180,726.12	4,039,165.90	188,928.22	333,587.00	1,561,512.00	4,057,533.00
Miscellaneous	1,217,192.72	433,218.30	88,900.98	100,366.26	7,232.79	587,474.39
Total surplus for period of time covered	5,400,299.07	1,866,194.59	381,980.35	420,335.03	1,167,980.43	1,563,808.67
Total deficit for period of time covered	1,066,460.98	528,556.75	156,386.29	97,996.22	158,844.56	124,677.16
Net surplus for period of time covered	4,333,838.09	1,337,637.84	225,594.06	322,338.81	1,009,135.87	1,439,131.51

In this table we have in small compass a comprehensive view of the operations of street railways during the year covered by the census investigation.

An interesting deduction to be made from these figures is that showing the relation of the earnings of street railway lines to their operating expenses. A statement follows showing for each kind of motive power the per cent which operating expenses bear to operating earnings, and the resulting per cent of net earnings:

MOTIVE POWER.	Per cent of operating expenses to operating earnings.	Percentage of net earnings.
All motive powers	68.43	31.57
Animal	73.66	26.34
Electric	70.49	29.51
Cable	65.69	34.31
Steam	57.35	42.65
Mixed and inseparable	66.77	33.23

In this statement it appears that steam passenger railways show the largest per cent of net earnings. This is due solely to the very profitable character of the traffic of the elevated railways in New York city and Brooklyn. For example, the per cent of net earnings in the case of the Manhattan Elevated Railroad Company, which controls the lines of New York city, is 47.82 per cent. The ordinary surface dummy lines are not pecuniarily profitable.

The cable railways take second rank as regards percentage of net earnings; the railways operated by mixed power are third, the electric roads fourth, and animal power roads last. As regards the electric lines, too much weight must not be given to these per cents. A large proportion of the electric lines show deficits, which may be attributed for the most part to the fact that they had just begun operations.

STATISTICS OF TRANSPORTATION.

TABLE 8.—BALANCE SHEET.

Although every street railway company in the United States was called upon to report its balance sheet to the Eleventh Census, a large proportion of the smaller roads were unable to give any satisfactory statement of this character. In preparing this table a very searching criticism was exercised over the reports received, and no statement was accepted which did not bear upon its face evidence of being a careful showing, prepared in good faith, of the situation of the company on the date of taking the balance. The more important companies are, however, nearly all included, and it would be approximately correct to assume that the total assets given are 81 per cent of the assets of all street railways in the United States. This would make the total \$504,290,680.73.

SUMMARY OF BALANCE SHEET.

ITEMS.	All motive powers.	Animal.	Electric.	Cable.	Steam.	Mixed and inseparable.
Assets:						
Cost of road and equipment	\$315,547,761.38	\$121,283,493.18	\$7,840,482.49	\$15,353,698.21	\$66,319,165.49	\$104,750,922.01
Other permanent investments	46,830,823.07	5,920,962.22	357,309.23	410,646.48	21,781,166.54	18,360,738.60
Value of franchise	14,597,444.00	4,842,362.40	1,225,000.00	1,192,581.60	20,000.00	7,317,500.00
Bills and accounts receivable	7,538,199.98	1,877,493.47	46,666.67	24,453.05	3,488,918.53	2,100,668.26
Cash on hand	7,774,860.61	4,064,015.98	186,323.25	82,524.56	1,030,295.21	2,411,701.61
Supplies	2,157,292.37	801,314.45	31,724.75	73,261.64	346,130.64	904,860.89
Miscellaneous assets	10,418,987.83	1,783,546.33	870,033.43	857,035.13	2,151,117.59	4,757,255.35
Profit and loss	3,610,082.15	2,281,954.35	116,055.94	467,358.34	345,222.91	399,490.61
Total	408,475,451.39	142,855,142.38	10,673,595.76	18,461,559.01	95,482,016.91	141,003,137.33
Liabilities:						
Capital stock	211,277,798.08	77,492,738.29	5,702,687.67	8,775,854.53	44,465,533.34	74,840,984.25
Funded debt	151,872,289.01	49,226,234.01	3,486,200.00	5,584,500.00	44,369,000.00	49,206,355.00
Bills and accounts payable	16,325,347.08	4,926,246.03	1,163,022.84	299,653.41	1,525,841.55	8,410,583.25
Interest due	1,013,780.48	379,986.01	18,120.05	21,712.50	290,619.41	303,342.51
Dividends due	191,119.25	51,008.81	405.78	-----	45,268.90	94,435.76
Miscellaneous liabilities	12,838,218.52	2,366,366.04	156,284.27	2,754,730.59	2,674,488.79	4,886,348.83
Profit and loss	14,956,898.97	8,412,563.19	146,875.15	1,025,107.98	2,111,264.92	3,261,087.73
Total	408,475,451.39	142,855,142.38	10,673,595.76	18,461,559.01	95,482,016.91	141,003,137.33

The designation "value of franchise" was adopted as one of the items because certain companies were in the habit of including among their assets what they regarded as the value of their franchise, and could not furnish a balance sheet in any other form. The item, however, by no means represents the total value of the franchises of all the roads reporting.

As may readily be imagined, some embarrassment was encountered in adjusting the balance sheets returned by the various companies with the arbitrary form necessary for uniform tabulation. In most cases, however, the companies themselves adapted their balance sheets to the census schedules. In cases where important items appear under a heading somewhat different from that under which they were reported the matter is explained in a note.

The actual assets for the systems included in "Balance sheet" amount to \$404,865,369.24, the liabilities to \$393,518,552.42, which leaves \$11,346,816.82 as actual profit and loss account to credit for the combined roads. "Profit and loss account" (either to credit or to debit) represents on the credit side the accumulated and undivided earnings, or income, etc.; on the debit side the actual losses.

TABLE 9.—TAXES, LICENSES, AND OTHER PUBLIC CHARGES.

That part of the statistical material collected by the census which concerns the relation of street railway corporations to the state and city as a political body is perhaps of more interest to administrators and students of municipal economy than any other. In addition to the facts shown in the summary below, inquiry was made regarding the duration and other provisions of franchises, and the plan in accordance with which taxes and licenses were assessed. The results of these inquiries, although of great interest, require very careful collation, and are reserved for an independent report.

The purpose of grouping under a single head all the contributions made by street railway companies to the bearing of public expense was to bring together in a succinct statement facts of much interest which otherwise would either not have appeared at all or been scattered. The following is a comparative summary of the various amounts reported under this head:

SUMMARY OF TAXES, LICENSES, AND OTHER PUBLIC CHARGES.

KINDS OF PAYMENT.	All motive powers.	Animal.	Electric.	Cable.	Steam.	Mixed and inseparable.
Total	\$3,400,343.52	\$1,746,236.11	\$66,462.87	\$85,086.76	\$505,768.80	\$996,788.98
General taxes	1,804,302.81	963,646.73	50,111.89	58,244.75	52,025.41	680,274.03
Specific taxes (on earnings, dividends, etc.)	1,229,890.85	561,777.91	10,797.00	13,877.51	452,128.09	191,310.34
Car licenses	217,810.99	112,581.12	3,223.75	11,078.18	559.35	90,363.59
Other licenses	37,129.67	30,701.55	419.85	1,886.32	1,055.95	3,066.00
Tolls over bridges and viaducts	72,016.58	48,891.11	1,500.00	-----	-----	21,625.47
Constructing and maintaining pavements not used by companies.	39,192.62	28,637.69	410.38	-----	-----	10,144.55

The question calling for sums spent in the construction and maintenance of pavements not used by companies would, it was supposed, draw out a statement of the amount expended under the ordinances in force in many cities requiring street railway companies to keep in repair either the whole pavement of the streets on which they run or some considerable part of it. The small sums reported under this head show, however, that it was in most cases impracticable to separate these expenditures from the ordinary expenditure for construction and maintenance.

As the amount of the contributions of street railways to the bearing of public expense is a question of peculiar interest to cities, a statement is appended giving an itemized summary of the amount of such expenses for 16 principal cities.

TAXES, LICENSES, AND OTHER MUNICIPAL CHARGES BORNE BY STREET RAILWAYS IN CITIES OF OVER 200,000 INHABITANTS.

CITIES.	Total.	General taxes.	Specific taxes.	Car licenses.	Other licenses.	Tolls over bridges and viaducts.	Constructing and maintaining pavements not used by company.
Total	\$2,866,219.54	\$1,414,797.13	\$1,206,658.29	\$189,416.12	\$14,863.10	\$17,299.46	\$23,185.44
Baltimore, Maryland	225,136.31	72,415.58	151,145.35	1,491.08	84.30	-----	-----
Boston, Massachusetts	243,378.94	243,357.97	20.97	-----	-----	-----	-----
Brooklyn, New York	217,510.68	153,386.12	47,593.59	16,460.00	70.97	-----	-----
Buffalo, New York	17,297.20	12,638.78	4,658.42	-----	-----	-----	-----
Chicago, Illinois	170,797.18	131,198.97	-----	39,598.21	-----	-----	-----
Cincinnati, Ohio	59,064.02	19,277.50	27,452.32	10,356.20	1,978.00	-----	-----
Cleveland, Ohio	18,734.37	15,239.37	-----	600.00	-----	2,895.00	-----
Detroit, Michigan	31,854.06	21,354.06	10,500.00	-----	-----	-----	-----
Milwaukee, Wisconsin	7,378.49	5,338.49	-----	2,040.00	-----	-----	-----
New Orleans, Louisiana	127,038.75	116,518.75	1,000.00	2,500.00	7,020.00	-----	-----
New York, New York	1,091,814.82	352,973.75	686,669.78	49,671.29	1,000.00	1,500.00	-----
Philadelphia, Pennsylvania	338,329.15	84,945.83	207,489.98	45,385.34	508.00	-----	-----
Pittsburg, Pennsylvania	88,903.51	22,643.92	52,055.13	1,300.00	-----	12,904.46	-----
Saint Louis, Missouri	83,347.06	49,864.06	18,000.00	14,275.00	1,208.00	-----	-----
San Francisco, California	85,431.27	65,938.98	-----	5,739.00	2,993.83	-----	10,759.46
Washington, District of Columbia	60,203.73	47,705.00	72.75	-----	-----	-----	12,425.98

This table is interesting not only in the totals which it shows, but also as marking the prevalence of specific taxation in certain states, as New York, Pennsylvania, and Maryland. In this report, however, it is not proposed to take up the important and difficult questions necessarily arising from the relation of street railway companies to municipal government.

STATISTICS OF TRANSPORTATION.

INCREASE IN LENGTH OF STREET RAILWAYS FOR THE DECADE, 1880 TO 1890.

IN CITIES OF OVER 50,000 INHABITANTS.

CITIES.	LENGTH OF LINE (STREET LENGTH) IN MILES.										1890	
	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	Street length.	Track length.
Albany, New York.....	18.50	18.50	18.50	17.97	17.97	17.97	18.46	20.16	20.16	20.24	20.24	31.47
Atlanta, Georgia.....	15.48	15.48	22.98	23.58	24.78	24.78	26.98	26.98	26.98	28.93	47.42	51.84
Baltimore, Maryland.....	46.54	46.54	69.01	69.01	69.56	69.56	69.56	73.11	73.63	88.63	100.57	156.55
Boston, Lynn, and Cambridge, Massachusetts.....	95.56	109.67	127.36	133.30	144.36	153.82	161.03	180.48	200.01	222.87	237.83	365.76
Brooklyn, New York.....	111.65	117.87	118.77	121.17	121.37	132.45	136.37	139.01	153.81	164.09	173.24	351.53
Buffalo, New York.....	25.44	25.95	27.56	29.10	29.10	29.90	33.42	36.80	39.71	42.30	44.30	66.27
Camden, New Jersey.....	6.71	6.71	6.71	6.71	6.71	6.71	6.71	6.71	6.71	11.96	14.12	15.00
Charleston, South Carolina.....	15.14	15.14	15.14	15.14	15.14	15.14	17.14	19.19	19.19	19.19	20.69	26.00
Chicago, Illinois.....	80.47	83.14	87.39	91.14	101.84	118.87	129.76	151.74	173.14	184.78	193.11	390.33
Cincinnati, Ohio.....	48.18	52.38	52.38	52.38	52.38	57.94	57.94	63.47	67.98	67.98	67.98	122.19
Cleveland, Ohio.....	26.41	26.41	26.73	32.84	37.43	40.43	41.18	46.43	51.95	58.70	88.38	158.88
Columbus, Ohio.....	18.50	18.50	18.50	18.50	19.25	19.25	19.25	19.75	19.75	20.50	21.00	34.75
Dayton, Ohio.....	9.75	13.25	13.25	13.25	13.25	13.25	13.25	13.25	13.25	18.16	23.60	44.95
Denver, Colorado.....	8.00	8.00	8.00	10.00	12.50	14.50	18.00	27.25	45.59	71.46	79.12	130.75
Des Moines, Iowa.....	3.50	4.00	5.00	5.50	7.50	8.50	9.00	10.00	14.00	20.48	20.24	28.81
Detroit, Michigan.....	26.56	26.84	26.84	26.84	30.02	30.02	37.96	45.51	47.61	56.95	59.25	79.54
Evansville, Indiana.....	4.50	4.50	4.50	7.50	7.50	7.50	7.50	7.50	9.50	21.40	21.40	28.50
Fall River, Massachusetts.....	4.05	6.17	6.17	6.17	8.19	8.76	11.64	11.84	11.94	11.94	12.29	17.38
Grand Rapids, Michigan.....	10.75	10.75	10.75	10.75	10.75	10.75	11.75	18.35	19.75	23.20	28.55	42.36
Hartford, Connecticut.....	9.25	10.80	12.05	12.05	12.05	12.05	12.05	12.05	12.05	16.80	18.00	26.00
Indianapolis, Indiana.....	15.00	18.00	22.00	23.00	25.00	27.00	28.00	29.00	33.00	41.39	45.00	70.00
Jersey city and Hoboken, New Jersey.....	15.40	15.40	15.40	15.40	15.50	17.05	21.21	21.21	21.84	44.14	46.65	78.25
Kansas city, Missouri.....	9.50	9.50	9.50	9.50	9.50	11.50	17.58	38.61	43.95	65.93	69.42	127.30
Lincoln, Nebraska.....						2.63	7.57	14.67	23.68	29.92	33.84	39.86
Los Angeles, California.....	11.03	11.03	11.03	13.75	13.75	17.29	18.82	41.14	69.95	80.35	78.23	113.16
Louisville, Kentucky.....	39.25	41.50	50.00	54.00	58.25	62.75	64.50	67.50	69.50	73.50	84.42	128.00
Lowell, Massachusetts.....	5.28	5.28	5.28	5.78	6.46	6.46	7.07	20.59	22.06	22.78	22.89	26.26
Memphis, Tennessee.....	15.00	17.50	20.00	22.50	25.00	27.50	30.00	35.00	35.00	35.00	35.00	46.00
Milwaukee, Wisconsin.....	11.41	11.41	18.42	18.87	19.20	19.67	19.83	24.84	31.94	47.27	52.75	97.06
Minneapolis, Minnesota.....	9.00	11.70	30.03	32.73	35.43	38.13	40.83	45.90	48.60	51.50	58.00	103.00
Nashville, Tennessee.....	4.63	4.63	4.63	4.63	4.63	4.63	4.63	17.83	20.83	34.93	44.60	57.31
Newark and Elizabeth, New Jersey.....	37.54	37.54	37.54	37.54	37.54	37.54	38.32	45.94	45.94	49.32	62.59	76.34
New Haven, Connecticut.....	16.75	16.75	17.25	17.60	17.60	17.60	17.60	17.60	19.75	20.55	20.85	26.08
New Orleans, Louisiana.....	81.89	87.09	87.34	97.09	97.09	97.09	97.09	100.34	100.34	100.34	112.59	153.14
New York, New York.....	130.55	130.55	130.55	130.67	134.57	154.01	160.60	173.55	174.65	176.72	180.56	377.42
Omaha, Nebraska.....	4.50	4.50	4.50	7.00	10.00	11.00	15.00	20.50	25.50	49.42	51.50	98.84
Paterson, New Jersey.....	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	14.00	14.00	14.00	17.00
Philadelphia, Pennsylvania.....	258.17	267.14	267.14	269.94	270.44	270.44	270.44	270.44	270.44	271.49	276.94	351.12
Pittsburg and Allegheny, Pennsylvania.....	38.63	41.50	43.90	45.25	45.25	46.25	46.67	50.37	57.85	64.80	65.95	110.50
Providence, Rhode Island.....	25.30	35.30	35.40	39.30	39.34	39.34	39.34	39.34	39.34	42.34	44.95	59.48
Reading, Pennsylvania.....	4.30	4.30	4.30	4.30	4.30	4.70	8.80	10.10	14.33	15.43	27.22	29.41
Richmond, Virginia.....	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	12.02	14.37	21.50	36.00
Rochester, New York.....	13.02	16.16	19.29	19.29	21.74	25.09	26.40	28.03	29.28	37.29	35.83	62.17
Saint Joseph, Missouri.....	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.80	13.07	13.38	22.88
Saint Louis, Missouri.....	63.29	68.97	71.82	71.82	74.89	77.63	88.83	89.83	90.83	92.83	115.25	192.45
Saint Paul, Minnesota.....	6.00	7.00	8.00	9.00	11.00	13.00	18.00	20.33	23.00	25.27	25.27	50.54
San Francisco, California.....	57.08	57.08	56.65	61.51	65.46	65.46	66.80	74.80	79.21	87.92	89.11	156.22
Scranton, Pennsylvania.....	10.50	10.50	10.50	10.50	10.50	10.50	12.75	14.75	17.00	17.00	25.00	30.00
Syracuse, New York.....	15.89	15.89	15.89	15.89	15.89	15.89	15.89	15.89	26.50	32.93	33.14	44.13
Toledo, Ohio.....	15.00	18.00	21.75	23.11	25.11	25.11	26.64	26.64	27.64	30.82	32.09	42.00
Trenton, New Jersey.....	1.63	1.63	1.63	1.63	1.63	4.63	5.63	6.63	7.63	12.50	12.50	18.25
Troy, New York.....	16.48	16.48	16.48	16.48	16.48	16.48	16.48	16.48	16.48	16.48	16.48	27.10
Washington, District of Columbia.....	29.47	29.47	29.47	32.52	32.52	32.52	32.52	32.52	34.22	38.77	45.22	83.00
Wilmington, Delaware.....	3.73	5.50	5.50	5.50	5.50	5.50	5.50	5.50	7.44	8.97	9.12	9.64
Worcester, Massachusetts.....	4.00	4.00	4.57	4.85	4.85	5.00	5.75	5.75	10.50	12.50	12.50	20.40

STREET RAILWAYS.

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INCREASE IN LENGTH OF STREET RAILWAYS FOR THE DECADE, 1880 TO 1890—Continued.

BY STATES AND GEOGRAPHICAL DIVISIONS.

GEOGRAPHICAL DIVISIONS AND STATES.	LENGTH OF LINE (STREET LENGTH) IN MILES.										1890	
	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	Street length.	Track length.
Grand total	2,050.16	2,150.09	2,342.20	2,506.14	2,680.31	2,938.29	3,268.58	3,890.22	4,499.49	5,285.11	5,783.47	8,123.02
North Atlantic—												
Maine	1.25	4.25	4.63	9.18	9.18	9.18	9.18	17.66	27.53	35.62	36.16	40.95
New Hampshire	2.80	2.80	11.24	11.24	11.33	11.33	14.69	17.63	19.43	22.55	24.86	26.62
Vermont						4.25	10.83	10.83	10.83	12.83	13.33	13.41
Massachusetts	149.41	169.59	191.02	198.91	227.60	257.77	306.01	347.77	405.55	452.69	484.58	650.34
Rhode Island	35.30	35.30	35.40	39.30	39.34	39.34	44.83	50.64	51.16	58.73	61.34	77.65
Connecticut	39.75	41.30	43.05	43.90	44.40	46.90	61.85	75.19	80.09	88.89	90.94	107.05
New York	385.39	395.26	404.02	418.57	427.57	478.95	502.69	558.43	601.06	659.26	679.33	1,168.14
New Jersey	78.98	78.98	78.98	78.98	79.08	83.63	92.18	107.80	115.43	152.98	171.09	230.88
Pennsylvania	342.72	354.56	359.56	368.62	375.71	383.89	397.56	419.41	444.62	467.33	502.31	636.81
Total	1,035.60	1,082.04	1,127.90	1,168.70	1,214.21	1,315.24	1,439.82	1,605.36	1,755.70	1,950.88	2,063.94	2,951.85
South Atlantic—												
Delaware	3.73	5.50	5.50	5.50	5.50	5.50	5.50	5.50	7.44	8.97	9.12	9.64
Maryland	46.54	46.54	69.01	69.01	69.56	69.56	69.56	72.11	73.63	90.63	102.57	158.55
District of Columbia	29.47	29.47	29.47	32.52	32.52	32.52	32.52	32.52	34.22	38.77	45.22	83.00
Virginia	7.81	7.81	7.81	7.81	7.81	11.69	11.69	19.10	32.47	45.07	59.17	76.05
West Virginia	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88	15.33	21.56	26.45	30.23
North Carolina								6.93	13.28	15.62	16.19	17.71
South Carolina	17.39	17.39	17.39	17.39	17.39	17.39	19.39	21.44	21.44	25.44	27.19	34.25
Georgia	20.14	20.14	42.64	47.74	51.44	54.88	62.88	73.05	91.49	112.84	157.48	178.00
Florida		2.00	2.50	7.60	7.60	9.77	13.52	17.35	20.00	22.00	22.54	24.53
Total	135.96	139.73	185.20	198.45	206.35	212.19	225.94	258.88	309.30	380.90	465.93	611.96
North Central—												
Ohio	130.14	141.22	145.29	161.51	175.40	188.58	191.33	219.80	254.57	281.97	340.48	522.08
Indiana	35.14	38.14	43.89	51.13	54.46	76.95	83.36	95.16	113.58	144.31	155.90	197.31
Illinois	129.85	133.10	156.10	160.85	175.13	196.93	219.58	245.83	281.60	315.13	327.59	552.79
Michigan	58.26	58.54	59.79	61.04	66.72	75.98	91.78	113.86	121.42	147.52	162.64	209.70
Wisconsin	13.01	14.64	27.15	30.60	30.93	31.40	39.13	50.19	64.11	96.84	107.25	159.49
Minnesota	15.00	18.70	38.03	41.73	53.73	58.87	70.14	81.30	86.67	97.92	104.42	178.96
Iowa	43.02	45.91	48.91	55.76	66.17	70.17	72.33	81.84	114.27	134.01	143.65	175.47
Missouri	79.54	85.22	88.07	91.82	97.66	100.40	119.68	142.46	157.60	197.85	225.07	371.70
South Dakota					1.60	1.60	3.10	4.10	12.35	18.50	30.37	30.51
Nebraska	4.50	4.50	4.50	7.00	10.00	20.63	29.57	49.22	75.58	116.39	124.91	179.14
Kansas		2.75	11.50	15.50	30.00	35.14	48.74	116.53	126.77	139.92	145.65	176.42
Total	508.46	542.72	623.23	676.94	761.80	856.65	968.74	1,200.29	1,408.52	1,690.36	1,867.93	2,753.57
South Central—												
Kentucky	49.33	52.64	61.14	73.14	77.39	83.89	89.69	106.84	111.93	118.08	131.00	186.30
Tennessee	25.88	28.38	30.88	33.88	37.13	45.38	47.88	73.08	81.08	100.12	132.40	167.00
Alabama	22.25	22.25	22.25	22.25	25.25	40.09	56.01	78.95	95.30	120.05	139.06	160.72
Mississippi	4.25	4.25	4.25	5.25	5.25	6.25	10.00	10.00	13.00	14.75	18.25	20.78
Louisiana	83.39	88.59	88.84	98.59	98.59	98.59	98.84	102.09	102.09	102.09	114.34	155.14
Texas	44.59	40.59	51.69	62.75	80.00	87.50	102.35	121.07	136.45	175.46	185.19	213.79
Arkansas	12.94	13.19	13.19	18.44	18.44	23.69	25.69	37.29	44.89	50.59	52.81	64.94
Total	242.63	255.89	272.24	314.30	342.05	385.39	430.46	529.32	584.74	681.14	773.05	968.67
Western—												
Montana							1.93	3.43	7.22	15.50	15.50	17.25
Wyoming								1.50	1.50	4.50	4.75	5.00
Colorado	10.00	10.00	10.00	12.00	15.70	17.70	21.20	32.55	59.01	92.72	99.66	154.79
New Mexico	1.80	1.80	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.50	3.77
Arizona									6.00	6.00	6.00	6.00
Utah	9.48	9.48	10.83	10.83	10.83	15.64	15.64	15.64	17.99	17.99	24.00	30.00
Washington								4.65	15.31	45.55	53.58	71.49
Oregon	1.75	1.75	3.25	7.79	7.79	7.86	9.36	10.36	24.36	45.01	50.49	62.07
California	104.48	106.68	106.25	113.83	118.28	124.32	152.19	224.94	306.54	351.26	355.14	486.60
Total	127.51	129.71	133.63	147.75	155.90	168.82	203.62	296.37	441.23	581.83	612.62	836.97

STATISTICS OF TRANSPORTATION.

TABLE 1.—LIST OF STREET RAILWAY COMPANIES REPORTING, SHOWING LENGTH OF LINE, MOTIVE POWER, AND NUMBER OF STOCKHOLDERS, FOR THE CENSUS YEAR.

No.	STATES AND CITIES.	Name of company.	Date of corporate charter.	Number of stockholders.	LENGTH OF LINE. (Miles.)		Kind of motive power.	PERIOD OF TIME COVERED BY REPORT.	
					Owued.	Operated.		From—	To—
ALABAMA.									
1	Anniston	Anniston City Street R'y Co.	Aug. —, 1888	7	6.50	6.50	Animal	July 1, 1889	July 1, 1890
2	Birmingham	Birmingham, Powderly and Bessemer Street R. R. Co.		24	12.50	12.50	Steam	Jan. 1, 1890	Jan. 1, 1891
3	Birmingham	Birmingham Railway and Electric Co.		71	42.25	42.25	A. and S.	June 1, 1890	Dec. 1, 1890
4	Birmingham	East Birmingham Land and R. R. Co.	Feb. 25, 1889	262	7.00	7.00	Steam	July 1, 1889	July 1, 1890
5	Birmingham	Highland Avenue and Belt R. R. Co.	May 5, 1887	54	5.86	5.86	Steam	July 1, 1889	July 1, 1890
6	Birmingham	North Birmingham Street R. R. Co.	Dec. 6, 1886	14	3.80	4.00	Steam	Mar. 1, 1890	Mar. 1, 1891
7	Decatur	Decatur Street R'y Co.	Mar. —, 1887	5	4.00	4.00	Animal	June 1, 1890	Aug. 1, 1890
8	Gadsden	Gadsden and Attalla Union R'y Co.	Mar. 29, 1890	5	7.25	7.25	Steam	Feb. 1, 1890	July 1, 1890
9	Mobile	Mobile Street R'y Co.	Feb. 26, 1888	25	20.25	20.25	Animal	July 1, 1889	July 1, 1890
10	Montgomery	Montgomery Terminal and Street R'y Co.	Apr. —, 1889	7	8.50	8.50	A. and S.	July 1, 1889	July 1, 1890
11	Selma	Selma Street R. R. Co.	Apr. —, 1866	10	7.00	7.00	A. and S.	July 1, 1889	July 1, 1890
12	Sheffield	Sheffield Street R'y Co.	Dec. —, 1886	10	4.40	4.40	Steam	July 1, 1889	July 1, 1890
13	Tuscaloosa	Tuscaloosa and Castle Hill Real Estate and Manufacturing Co.	Feb. 9, 1887		4.00	4.00	Animal	July 1, 1889	July 1, 1890
14	Tuscaloosa	Tuscaloosa Belt R'y Co.	July 5, 1889	9	2.25	2.25	Steam	July 1, 1889	July 1, 1890
ARKANSAS.									
15	Fort Smith	Fort Smith Street R'y Co.	Aug. 2, 1881	25	8.44	8.44	Animal	July 1, 1889	July 1, 1890
16	Helena	Citizens' Street R'y Co.	Mar. 8, 1887	14	2.00	2.00	Animal	July 1, 1889	July 1, 1890
17	Hot Springs	Hot Springs Street R. R. Co.	—, 1874	5	7.90	7.90	Animal	July 1, 1889	July 1, 1890
18	Little Rock	Capital Street R'y Co.	Apr. 1, —	5	12.25	12.25	Animal	July 1, 1889	July 1, 1890
19	Little Rock	City Electric Street R'y Co.	Dec. 6, 1887	4	3.25	3.25	Steam	July 1, 1889	July 1, 1890
20	Pine Bluff	Citizens' Street R'y Co.	Feb. 4, 1885	6	6.28	6.28	Animal	July 1, 1889	July 1, 1890
21	Searcy	Searcy and West Point R. R. Co.		9	8.19	8.19	A. and S.	July 1, 1889	July 1, 1890
22	Texarkana	Texarkana Street R'y Co.		9	4.00	4.00	Animal	July 1, 1889	July 1, 1890
CALIFORNIA.									
23	Anaheim	Anaheim Street Car Co.	Jan. 28, 1887	43	1.75	1.75	Animal	Oct. 1, 1889	Oct. 1, 1890
24	Fresno	Fresno R. R. Co.	Oct. 24, 1887	15	1.50	1.50	Animal	July 1, 1889	July 1, 1890
25	Fresno	Fresno Street R. R. Co.	Apr. —, 1887	3	1.50	1.50	Animal	July 1, 1889	July 1, 1890
26	Los Angeles	Cahuenga Valley R. R. Co.	Mar. 26, 1888	5	6.06	6.06	Steam	July 1, 1889	Sept. 16, 1889
27	Los Angeles	Elysian Park Street R'y Co.		10	3.50	3.50	Animal	Jan. 1, 1890	July 1, 1890
28	Los Angeles	Los Angeles Electric R'y Co.	Mar. 3, 1890	5	8.00	8.00	Electric		July 1, 1890
29	Los Angeles	Main Street and Agricultural Park R. R. Co.	Sept. 24, 1874	23	5.86	6.48	Animal	July 1, 1889	July 1, 1890
30	Los Angeles	Mateo and Santa Fe Avenue R'y Co.	—, 1888	13	3.00	3.00	Animal	July 1, 1889	July 1, 1890
31	Los Angeles	Pacific R'y Co.	Aug. 22, 1889	97	21.65	21.65	C. and A.	July 1, 1889	July 1, 1890
32	Los Angeles	San Gabriel Valley Rapid Transit R'y	July 29, 1887	157	19.70	19.70	Steam	Sept. 1, 1890	Oct. 1, 1890
33	Los Angeles	Second Street Cable R. R. Co.	Mar. 14, 1885	13	1.29	1.29	Cable	July 1, 1889	Oct. 12, 1889
34	Los Angeles	Temple Street Cable R'y Co.	Oct. 31, 1885	22	3.00	3.00	Cable	July 1, 1889	July 1, 1890
35	Marysville	Marysville and Yuba City Street R. R. Co.	—, 1888	6	2.11	2.11	Animal	Sept. 1, 1889	July 1, 1890
36	Oakland	Alameda, Oakland and Piedmont R. R. Co.	Feb. 7, 1873	8	4.00	4.00	Animal	July 1, 1889	July 1, 1890
37	Oakland	Oakland, Brooklyn and Fruitvale R. R. Co.	June 14, 1871	12	1.88	1.88	Animal	July 1, 1889	July 1, 1890
38	Oakland	Oakland R. R. Co.	Jan. 27, 1888	8	9.04	9.04	A. C., & S.	July 1, 1889	July 1, 1890
39	Ontario	Ontario and San Antonio Heights R. R. Co.	Sept. 3, 1888	12	6.25	6.25	Animal	July 1, 1889	July 1, 1890
40	Pasadena	Alhambra and Pasadena Street R'y Co.	June 6, 1887	9	4.50	4.50	Animal	July 1, 1889	July 1, 1890
41	Pasadena	City R'y Co.	Nov. 20, 1886	21	5.25	5.25	Animal	July 1, 1889	July 1, 1890
42	Pasadena	Highland R. R. Co.	—, 1887		5.00	5.00	Animal	Mar. 1, 1890	July 1, 1890
43	Pasadena	Pasadena Street R. R. Co.	Mar. 26, 1886	16	3.50	3.50	Animal	July 1, 1889	July 1, 1890
44	Pasadena	West Pasadena R'y Co.	May 10, 1888	6	3.25	3.25	Animal	July 1, 1889	July 1, 1890
45	Pomona	Orange Grove Street R. R. Co.	Jan. 7, 1888	7	3.75	3.75	Animal	July 1, 1889	July 1, 1890
46	Pomona	Pomona Street R. R. Co.	Mar. 28, 1887	16	2.88	2.88	Steam	July 1, 1889	July 1, 1890
47	Pomona	San Antonio and Holt Avenue R. R. Co.	Oct. 21, 1887	16	2.04	2.04	Animal	July 1, 1889	July 1, 1890
48	Redlands	Redlands Street R'y Co.	Feb. 25, 1888	29	3.13	3.13	Animal	July 1, 1889	July 1, 1890
49	Riverside	Hall's Addition Street R'y Co.	July 18, 1887	6	1.35	1.35	Animal	July 1, 1889	July 1, 1890
50	Riverside	Riverside and Arlington R'y Co.	Aug. 13, 1887	50	7.22	7.22	Animal	July 1, 1889	July 1, 1890
51	Riverside	Riverside R'y Co.	Sept. 24, 1886	6	3.00	3.00	Animal	July 1, 1889	July 1, 1890
52	Sacramento	Sacramento City R'y Co.			6.50	6.50	Animal	July 1, 1889	July 1, 1890
53	San Bernardino	City Street R. R. Co.	Dec. 9, 1884	6	2.25	2.25	Animal	July 1, 1889	July 1, 1890
54	San Bernardino	San Bernardino and Redlands R. R. Co.	Jan. 21, 1888	9	10.50	10.50	Steam	July 1, 1889	July 1, 1890
55	San Bernardino	San Bernardino, Arrowhead and Waterman R. R. Co.	Oct. 28, 1887	22	4.50	4.50	A. and S.	July 1, 1889	July 1, 1890
56	San Bernardino	Southern California Motor Road Co.	Oct. 27, 1887		15.00	15.00	A. and S.	June 1, 1890	July 1, 1890
57	San Diego	San Diego Street Car Co.	Mar. —, 1886	9	8.50	8.50	Animal	July 1, 1889	July 1, 1890
58	San Francisco	California Street Cable R. R. Co.	Feb. 8, 1877	68	2.49	2.49	Cable	July 1, 1889	July 1, 1890
59	San Francisco	Central R. R. Co.	July 1, 1862	27	5.88	6.18	Animal	July 1, 1889	July 1, 1890
60	San Francisco	City R. R. Co.	May 14, 1863	15	4.84	5.12	Animal	July 1, 1889	July 1, 1890
61	San Francisco	Ferris and Cliff House R'y Co.	Dec. 15, 1887	46	14.89	14.89	S. and C.	July 1, 1889	July 1, 1890
62	San Francisco	Geary Street Park and Ocean R. R. Co.	Nov. 5, 1878	36	3.80	3.80	S. and C.	July 1, 1889	July 1, 1890
63	San Francisco	Market Street Cable R'y Co.	Mar. 24, 1882	14	12.40	19.18	A. S., & C.	July 1, 1889	July 1, 1890
64	San Francisco	North Beach and Mission R. R. Co.	Aug. 23, 1862	95	8.00	8.00	Animal	July 1, 1889	July 1, 1890
65	San Francisco	Omnibus Cable Co.	—, 1888	104	11.75	11.75	Cable	Jan. 1, 1890	Jan. 1, 1891
66	San Francisco	Potrero and Bay View R. R. Co.	May 1, 1866	8	1.57	1.57	Animal	July 1, 1889	July 1, 1890
67	San Francisco	Presidio and Ferris R. R. Co.	Jan. 6, 1882	93	4.38	6.38	A. C., & S.	July 1, 1889	July 1, 1890
68	San Francisco	Sutter Street R'y Co.	Dec. 22, 1887	32	5.75	5.75	Cable	July 1, 1889	July 1, 1890
69	San Jose	First Street and Willow Street R. R.	Mar. —, 1890		3.75	3.75	Animal	July 1, 1889	July 1, 1890
70	San Jose	North Side Horse R. R. Co.	July 12, 1876	7	2.25	2.25	Animal	July 1, 1889	July 1, 1890
71	San Jose	San Jose and Santa Clara R'y Co.	July 9, 1868	7	8.63	8.63	A. and E.	Apr. 1, 1890	July 1, 1890
72	San Luis Obispo	San Luis Street R'y Co.			1.50	1.50	Animal	Apr. 1, 1890	July 1, 1890
73	Santa Ana	Santa Ana, Orange and Tustin Street R'y Co.	Mar. 30, 1886	33	8.00	8.00	Animal	July 1, 1889	July 1, 1890
74	Santa Barbara	Santa Barbara and Citizens' Street R'y Co.		6	6.00	6.00	Animal	July 1, 1889	July 1, 1890
75	Santa Cruz	Pacific Avenue R. R. Co.	Mar. 30, 1882	5	2.08	2.08	Animal	July 1, 1889	July 1, 1890
76	Santa Rosa	South Side Street R'y Co.	May 22, 1888	18	1.67	1.67	Animal	July 1, 1889	July 1, 1890
77	Stockton	Stockton Street R. R. Co.	Jan. 15, 1887	11	4.40	4.40	Animal	July 1, 1889	July 1, 1890
78	Woodland	Woodland Street R. R. Co.	—, 1887	30	1.00	1.00	Animal	July 1, 1889	July 1, 1890

TABLE 1.—LIST OF STREET RAILWAY COMPANIES REPORTING, SHOWING LENGTH OF LINE, ETC.—Continued.

No.	STATES AND CITIES.	Name of company.	Date of corporate charter.	Number of stockholders.	LENGTH OF LINE. (Miles.)		Kind of motive power.	PERIOD OF TIME COVERED BY REPORT..	
					Owued.	Operated.		From—	To—
COLORADO.									
79	Denver	Colfax Avenue Electric R. R. Co.			6.00	6.00	Electric	May 17, 1890	July 1, 1890
80	Denver	Denver and Berkeley Park Rapid Transit Co.	May 15, 1888	4	5.00	5.00	Steam	July 1, 1889	July 1, 1890
81	Denver	Denver City Cable R'y Co.	May 28, 1888	168	13.00	13.00	Cable	Oct. 16, 1889	Oct. 16, 1890
82	Denver	Denver City R'y Co.	Jan. 10, 1867	6	29.25	29.25	Animal	July 1, 1889	July 1, 1890
83	Denver	Denver Tramway Co.	Feb. 5, 1885	41	22.25	22.25	E. and C.	Jan. 1, 1890	Jan. 1, 1891
84	Denver	University Park Railway and Electric Co.	Feb. 12, 1889	60	3.62	3.62	Electric	Feb. 5, 1890	July 1, 1890
85	Pueblo	Pueblo City R'y Co.	Dec. 1, 1889	5	12.00	12.00	Animal	July 1, 1889	July 1, 1890
86	Trinidad	Trinidad Street R'y Co.	Feb. 22, 1886	10	2.50	2.50	Animal	July 1, 1889	July 1, 1890
CONNECTICUT.									
87	Birmingham	Derby Street R'y Co.	Mar. 19, 1885	16	2.80	3.00	Electric	July 1, 1889	July 1, 1890
88	Bridgeport	Bridgeport Horse R. R. Co.	May —, 1864	8	6.50	6.50	Animal	Oct. 1, 1889	Oct. 1, 1890
89	Danbury	Danbury and Bethel Horse R'y Co.	—, 1885	9	4.17	4.17	Animal	July 1, 1889	July 1, 1890
90	Hartford	Hartford and Wethersfield Horse R'y Co.	May —, 1859	59	18.00	18.00	A. and E.	July 1, 1889	July 1, 1890
91	Middletown	Middletown Horse R. R. Co.	—, 1871	75	3.75	3.75	Animal	Oct. 1, 1889	Oct. 1, 1890
92	New Britain	New Britain Tramway Co.	—, 1886	16	4.50	4.50	Animal	July 1, 1889	July 1, 1890
93	New Haven	Fair Haven and Westville R. R. Co.	June 20, 1860	120	7.00	7.00	Animal	July 1, 1889	July 1, 1890
94	New Haven	New Haven and Centerville Horse R. R. Co.	May —, 1865	—	2.50	2.50	Animal	July 1, 1889	July 1, 1890
95	New Haven	New Haven and West Haven Horse R. R. Co.	—, 1867	27	7.00	7.00	Animal	July 1, 1889	July 1, 1890
96	New Haven	State Street Horse R. R. Co.	June 26, 1868	36	2.20	4.35	Animal	July 1, 1889	July 1, 1890
97	New Haven	Whitney Avenue Horse R'y Co.	July 27, 1871	25	2.15	(a)	Animal	July 1, 1889	July 1, 1890
98	Norwalk	Norwalk Horse R'y Co.	May —, 1862	18	3.50	3.50	Animal	July 1, 1889	July 1, 1890
99	Norwich	Norwich Street R'y Co.	—, 1882	5	8.50	8.50	Animal	July 1, 1889	July 1, 1890
100	Stamford	Stamford Street R. R. Co.	Feb. 24, 1886	34	3.50	3.50	Animal	July 1, 1889	July 1, 1890
101	Waterbury	Waterbury Horse R. R. Co.	Mar. 18, 1884	8	5.75	5.75	Animal	July 1, 1889	July 1, 1890
102	Westport	Westport and Saugatuck Horse R. R. Co.	—, 1876	31	1.75	1.75	Animal	July 1, 1889	July 1, 1890
DELAWARE.									
103	Wilmington	Front and Union Street R'y Co.	—, 1881	22	1.33	1.33	Animal	July 1, 1889	July 1, 1890
104	Wilmington	Wilmington City R'y Co.	Feb. 4, 1864	120	7.79	7.79	A. and E.	July 1, 1889	July 1, 1890
DIST. OF COLUMBIA.									
105	Washington	Anacostia and Potomac River R. R. Co.	Feb. 18, 1875	76	3.00	3.00	Animal	July 1, 1889	July 1, 1890
106	Washington	Brightwood R'y Co.	Oct. 18, 1888	10	2.00	(b)	Animal	—	—
107	Washington	Capitol, North O Street and South Washington R'y Co.	Mar. 3, 1875	171	8.00	8.50	Animal	July 1, 1889	July 1, 1890
108	Washington	Columbia R'y Co.	May 24, 1871	115	2.80	2.80	Animal	Jan. 1, 1890	Jan. 1, 1891
109	Washington	Eckington and Soldiers' Home R'y Co.	June 19, 1888	—	5.00	5.00	Electric	Jan. 1, 1890	Jan. 1, 1891
110	Washington	Georgetown and Tennallytown R'y Co.	Aug. 10, 1888	165	4.00	4.00	Electric	Apr. 25, 1890	Sept. 1, 1890
111	Washington	Metropolitan R. R. Co.	July 1, 1864	248	9.72	12.92	Animal	July 1, 1889	July 1, 1890
112	Washington	Washington and Georgetown R. R. Co.	May 17, 1862	161	10.70	10.70	A. and C.	July 1, 1889	July 1, 1890
FLORIDA.									
113	Fort Meade	Fort Meade Street R'y Co.	Nov. —, 1886	37	2.25	2.25	Animal	Jan. 18, 1889	Jan. 18, 1890
114	Jacksonville	Jacksonville Street R. R. Co.	Dec. 23, 1879	8	8.50	8.50	Animal	July 1, 1889	July 1, 1890
115	Jacksonville	Main Street R'y Co.	Mar. 12, 1883	7	1.40	1.40	Animal	July 1, 1889	July 1, 1890
116	Orlando	Orlando Street R'y Co.	—	2	1.75	1.75	Animal	—	—
117	Palatka	Palatka and Heights Street R'y Co.	Feb. 1, 1888	6	2.00	2.00	Animal	July 1, 1889	July 1, 1890
118	Pensacola	Pensacola Street Car Co.	Dec. 6, 1882	6	2.74	2.74	Animal	July 1, 1889	July 1, 1890
119	Tampa	Tampa Street R'y Co.	Feb. 12, 1885	5	3.40	3.40	Steam	July 1, 1889	July 1, 1890
GEORGIA.									
120	Athens	Athens R'y Co.	—, 1890	2	3.00	3.00	Animal	July 1, 1890	Jan. 1, 1891
121	Atlanta	Atlanta and Edgewood Street R. R. Co.	Aug. 23, 1889	8	2.00	2.00	Electric	Aug. 23, 1889	July 1, 1890
122	Atlanta	Atlanta Street R. R. Co.	Feb. —, 1866	7	26.00	26.00	Animal	Jan. 1, 1890	Jan. 1, 1891
123	Atlanta	Fulton County Street R. R. Co.	—, 1888	172	9.42	9.42	Electric	Jan. 1, 1890	Jan. 1, 1891
124	Atlanta	Metropolitan Street R. R. Co.	Dec. 12, 1882	19	10.00	10.00	S. and A.	July 1, 1889	July 1, 1890
125	Augusta	Augusta and Summerville R. R. Co.	Mar. 20, 1866	50	10.00	10.00	A. and E.	July 1, 1889	July 1, 1890
126	Augusta	Augusta R'y Co.	Nov. 13, 1849	7	16.00	16.00	Electric	—	—
127	Brunswick	Brunswick Street R. R. Co.	—, 1886	6	7.50	7.50	Animal	July 1, 1889	July 1, 1890
128	Columbus	Columbus R. R. Co.	Sept. —, 1867	29	16.00	16.00	S. and A.	July 1, 1889	July 1, 1890
129	Covington	Covington and Oxford Street R. R. Co.	Feb. 14, 1888	52	2.50	2.50	Animal	July 1, 1889	July 1, 1890
130	Lithia Springs	Salt Springs and Bowden Lithia R. R.	—	—	1.38	1.38	Steam	Mar. 1, 1890	July 1, 1890
131	Milledgeville	Milledgeville and Asylum Dummy R. R. Co.	Dec. 26, 1888	252	5.50	5.50	Steam	July 1, 1889	July 1, 1890
132	Rome	North and South Street R. R. Co.	Dec. —, 1888	34	1.63	1.63	Animal	July 1, 1889	July 1, 1890
133	Rome	Rome Street R'y Co.	Oct. 7, 1885	6	7.50	7.50	S. and A.	—	—
134	Savannah	City and Suburban R'y Co.	Apr. —, 1882	10	18.00	18.00	S. and A.	July 1, 1889	July 1, 1890
135	Savannah	Savannah Street and Rural Resort R. R. Co.	—, 1883	10	7.00	7.00	Animal	July 1, 1889	July 1, 1890
ILLINOIS.									
136	Alton	Alton and Upper Alton Horse Railway and Carrying Co.	Feb. 20, 1867	17	2.88	2.88	Animal	July 1, 1889	July 1, 1890
137	Alton	Alton Improvement Association.	Mar. 25, 1887	32	3.13	3.13	Steam	July 1, 1889	July 1, 1890
138	Aurora	Aurora City R'y Co.	—, 1882	10	5.15	5.15	Animal	July 1, 1889	July 1, 1890
139	Belleville	Citizens' Horse R'y Co.	—, 1884	2	4.00	4.00	Animal	July 1, 1889	July 1, 1890
140	Bloomington	Bloomington City R'y	—, 1888	3	11.00	11.00	Animal	July 1, 1889	July 1, 1890
141	Cairo	Cairo Street R'y Co.	Sept. 4, 1880	28	3.42	3.42	Animal	July 1, 1889	July 1, 1890
142	Chicago	Chicago City R'y Co.	Feb. 14, 1859	273	76.48	76.48	A. and C.	Jan. 1, 1890	Jan. 1, 1891
143	Chicago	Chicago Passenger R'y Co.	Feb. 10, 1883	43	(c)	(c)	A. and C.	—	—
144	Chicago	Chicago West Division R'y Co.	Feb. 21, 1861	156	(c)	(c)	A. and C.	—	—
145	Chicago	North Chicago Street R. R. Co.	Mar. 31, 1886	225	14.56	46.37	A. and C.	July 1, 1889	July 1, 1890
146	Chicago	South Chicago City R'y Co.	—	5	5.50	5.50	Animal	July 1, 1889	July 1, 1890
147	Chicago	West Chicago Street R. R. Co.	July 12, 1887	850	3.85	69.25	A. and C.	Jan. 1, 1890	Jan. 1, 1891
148	Chillicothe	People's Street R. R. Co.	Apr. 27, 1888	28	1.50	1.50	Animal	July 1, 1889	July 1, 1890
149	Danville	Citizens' Street R'y Co.	May 29, 1883	7	5.00	5.00	Animal	July 1, 1889	July 1, 1890
150	Decatur	Citizens' Electric Street R'y Co.	Apr. 27, 1889	6	6.00	6.00	Electric	Sept. 1, 1889	Sept. 1, 1890

(a) Leased to State Street Horse R. R. Co.

(b) Leased to Metropolitan R. R. Co.

(c) Leased to West Chicago Street R. R. Co.

TABLE 1.—LIST OF STREET RAILWAY COMPANIES REPORTING, SHOWING LENGTH OF LINE, ETC.—Continued.

No.	STATES AND CITIES.	Name of company.	Date of corporate charter.	Number of stockholders.	LENGTH OF LINE. (Miles.)		Kind of motive power.	PERIOD OF TIME COVERED BY REPORT.	
					Owued.	Operated.		From—	To—
ILLINOIS—cont'd.									
151	East Saint Louis	Saint Louis and East Saint Louis Electric R'y Co.	July —, 1889	19	1.00	1.00	Electric	Jan. 1, 1890	Jan. 1, 1891
152	Freeport	Freeport Street R'y Co.	—, 1886	5	3.50	3.50	Animal	July 1, 1889	July 1, 1890
153	Galesburg	College City Street R'y Co.	Mar. 24, 1885	21	5.00	5.00	Animal	July 1, 1889	July 1, 1890
154	Lasalle	Lasalle and Peru Horse and Dummy R. R. Co.	—, 1874	10	1.46	1.46	Animal	July 1, 1889	July 1, 1890
155	Mechanicsburg	Mechanicsburg and Buffalo R'y Co.	—, 1882	7	3.50	3.50	Animal	July 1, 1889	July 1, 1890
156	Moline	Moline Central Street R'y Co.	Oct. 2, 1884	65	2.88	2.88	Electric	Oct. 16, 1889	July 1, 1890
157	Ottawa	Ottawa Electric Street R'y Co.	July —, 1888	3	6.75	6.75	Electric	—	July 1, 1890
158	Peoria	Central R'y Co.	Mar. 31, 1888	50	6.25	6.25	Electric	Jan. 1, 1890	Jan. 1, 1891
159	Peoria	Fort Clark Horse R'y Co.	May 17, 1873	31	5.00	5.00	Animal	July 1, 1889	July 1, 1890
160	Rockford	Rockford City R'y Co.	Jan. 20, 1890	8	4.50	4.50	Animal	July 1, 1889	July 1, 1890
161	Rock Island	Rock Island and Milan Street R'y Co.	May 31, 1882	97	5.50	5.50	A. and S.	July 1, 1889	July 1, 1890
162	Springfield	Citizens' Street R'y Co.	July —, 1879	26	9.25	9.25	Animal	July 1, 1889	July 1, 1890
163	Springfield	Springfield City R'y Co.	Feb. 18, 1861	2	7.00	7.00	Animal	July 1, 1889	July 1, 1890
164	Urbana	Urbana and Champaign Street R'y Co.	July 17, 1883	4	2.00	2.00	Animal	July 1, 1889	July 1, 1890
INDIANA.									
165	Anderson	Anderson Street R'y Co.	Aug. 12, 1887	7	4.50	4.50	Animal	July 1, 1889	July 1, 1890
166	Elkhart	Citizens' Street R'y Co.	Feb. —, 1886	11	7.00	7.00	Electric	July 1, 1889	July 1, 1890
167	Evansville	Evansville Street R'y Co.	May —, 1886	10	10.50	10.50	Animal	July 1, 1889	July 1, 1890
168	Evansville	Evansville Suburban and Newburg R'y Co.	Nov. —, 1887	50	10.90	10.90	Steam	July 1, 1889	July 1, 1890
169	Fort Wayne	C. L. Centlivre Street R'y Co.	Apr. 4, 1889	5	1.33	1.33	Animal	July 1, 1889	July 1, 1890
170	Fort Wayne	Fort Wayne Street R. R. Co.	Aug. 20, 1887	5	9.32	9.32	Animal	July 1, 1889	July 1, 1890
171	Greencastle	Greencastle City Street R. R. Co.	—, 1886	16	2.60	2.60	Animal	July 1, 1889	July 1, 1890
172	Indianapolis	Citizens' Street R. R. Co.	Apr. 24, 1888	59	45.00	45.00	Animal	July 1, 1889	July 1, 1890
173	Jeffersonville	Ohio Falls Street R'y Co.	Jan. 14, 1889	39	4.50	4.50	Animal	July 1, 1889	July 1, 1890
174	Lafayette	Lafayette Street R'y Co.	—, 1883	6	4.00	4.00	Electric	July 1, 1889	July 1, 1890
175	Logansport	Logansport R'y Co.	Dec. 1, 1882	3	4.00	4.00	Animal	July 15, 1889	July 10, 1890
176	Madison	Madison Street R'y Co.	—, 1873	5	2.50	2.50	Animal	Dec. 1, 1889	Dec. 1, 1890
177	Marion	Marion Street R. R. Co.	Sept. 6, 1889	5	1.00	1.00	Animal	Jan. 1, 1890	July 1, 1890
178	Michigan city	Citizens' Street R'y Co.	Mar. 8, 1886	5	3.25	3.25	Animal	July 1, 1889	July 1, 1890
179	Muncie	Muncie Street R'y Co.	June 20, 1889	7	5.00	5.00	Steam	Nov. 1, 1889	July 1, 1890
180	New Albany	New Albany R'y Co.	—	9	7.50	7.50	Animal	July 1, 1889	July 1, 1890
181	Richmond	Richmond City R'y Co.	Jan. —, 1890	10	3.00	3.00	Electric	Sept. 1, 1889	Sept. 1, 1890
182	South Bend	South Bend and Mishawaka R'y	Sept. 10, 1889	9	17.00	17.00	A. and E.	Oct. 1, 1889	Oct. 1, 1890
183	Terre Haute	Terre Haute Street R'y Co.	—, 1886	6	6.50	6.50	Animal	July 1, 1889	July 1, 1890
184	Terre Haute	Vigo County Street R'y Co.	Aug. 14, 1880	5	4.00	4.00	Animal	July 1, 1889	July 1, 1890
185	Vincennes	Vincennes Citizens' Street R'y Co.	Oct. 24, 1881	5	2.50	2.50	Animal	July 1, 1889	July 1, 1890
IOWA.									
186	Boone	Boone and Boonesboro Street R'y Co.	June 1, 1883	5	1.85	1.85	Animal	July 1, 1889	July 1, 1890
187	Burlington	Burlington Street R. R.	Mar. 1, 1881	1	2.50	2.50	Animal	July 1, 1889	July 1, 1890
188	Cedar Rapids	Cedar Rapids and Marion R'y	Mar. 9, 1882	19	9.00	9.00	A. and S.	July 1, 1889	July 1, 1890
189	Centerville	People's Street R'y Co.	June 19, 1885	2	1.75	1.75	Animal	July 1, 1889	July 1, 1890
190	Council Bluffs	Lake Manawa R'y Co.	Feb. 5, 1887	5	4.00	4.00	Steam	July 1, 1889	July 1, 1890
191	Council Bluffs	Omaha and Council Bluffs R'y and Bridge Co.	Apr. 1, 1887	9	9.74	10.68	Electric	Jan. 1, 1890	Jan. 1, 1891
192	Davenport	Davenport and Rock Island R'y Co.	Sept. 19, 1888	58	27.00	27.00	Animal	July 1, 1889	July 1, 1890
193	Davenport	Davenport Central R'y Co.	Nov. 2, 1871	17	2.88	2.88	Electric	July 1, 1889	July 1, 1890
194	Des Moines	Des Moines Belt Line R'y Co.	June —, 1888	5	4.50	4.50	Steam	July 1, 1889	July 1, 1890
195	Des Moines	Des Moines Street R. R. Co.	June —, 1886	31	15.74	15.74	E. and A.	Oct. 1, 1889	Oct. 1, 1890
196	Dubuque	Dubuque Street R'y Co.	Apr. 25, 1890	3	8.00	8.00	Animal	July 1, 1889	July 1, 1890
197	Dubuque	Eleventh Street Elevated R. R.	July 12, 1887	18	0.06	0.06	Cable	July 1, 1889	July 1, 1890
198	Fort Madison	Fort Madison Street R'y Co.	June 10, 1887	15	3.70	3.70	Animal	July 1, 1889	July 1, 1890
199	Keokuk	Keokuk Street R'y Co.	Aug. —, 1883	2	3.50	3.50	Animal	July 1, 1889	July 1, 1890
200	Lyons	Clinton and Lyons Horse R'y Co.	Aug. 1, 1869	18	9.50	9.50	Animal	July 1, 1889	July 1, 1890
201	Marshalltown	Marshalltown Passenger R'y Co.	Dec. 8, 1884	2	2.77	2.77	Animal	July 1, 1889	July 1, 1890
202	Ottumwa	Ottumwa Railway, Electric and Steam Co.	Sept. 4, 1889	12	4.50	4.50	Electric	Nov. 28, 1889	July 1, 1890
203	Red Oaks	Red Oaks Street R'y Co.	Oct. 1, 1881	7	1.00	1.00	Animal	July 1, 1889	July 1, 1890
204	Sioux city	Sioux City and Highland Park R'y Co.	Feb. 24, 1886	7	4.75	4.75	Steam	July 1, 1889	July 1, 1890
205	Sioux city	Sioux City Street R'y Co.	Dec. 6, 1883	2	8.00	8.00	Electric	Oct. 1, 1890	Nov. 1, 1890
206	Waterloo	Waterloo Street R'y Co.	Aug. 17, 1885	2	2.00	2.00	Animal	July 1, 1889	July 1, 1890
KANSAS.									
207	Abilene	Abilene Street R'y Co.	Aug. —, 1886	4	3.00	3.00	Animal	July 1, 1889	July 1, 1890
208	Arkansas city	Arkansas City Street R'y Co.	Apr. 5, 1887	21	6.00	6.00	Animal	July 1, 1889	July 1, 1890
209	Atchison	Atchison Electric Street R'y Co.	May —, 1890	3	8.00	8.00	Animal	—	—
210	Cottonwood Falls	Consolidated Street R'y Co.	Dec. 6, 1886	16	1.50	1.50	Animal	July 1, 1889	July 1, 1890
211	Hutchinson	Hutchinson Street R'y Co.	Sept. 9, 1886	5	9.25	9.25	Animal	July 1, 1889	July 1, 1890
212	Kansas city	Interstate Consolidated Rapid Transit R'y Co.	—	75	7.89	7.89	C. and S.	Jan. 1, 1890	Jan. 1, 1891
213	Lawrence	Lawrence Transportation Co.	Jan. 24, 1884	3	5.00	5.00	Animal	July 1, 1889	July 1, 1890
214	Leavenworth	Leavenworth and Suburban R'y	—, 1884	—	4.64	4.64	Animal	July 1, 1889	July 1, 1890
215	Leavenworth	Leavenworth Rapid Transit R'y Co.	Mar. 8, 1887	—	5.50	5.50	Steam	July 1, 1889	July 1, 1890
216	McPherson	McPherson Street R'y Co.	Jan. 26, 1886	9	4.50	4.50	Animal	July 1, 1889	July 1, 1890
217	Newton	Newton City Street R'y Co.	Jan. —, 1887	7	4.50	4.50	Animal	July 1, 1889	July 1, 1890
218	Ottawa	Ottawa Street R. R. Co.	—	5	2.00	2.00	Animal	—	—
219	Salina	Salina R'y Co.	Sept. —, 1886	6	3.00	3.00	Animal	July 1, 1889	July 1, 1890
220	Topeka	Topeka Belt R'y Co.	Nov. 9, 1887	9	3.80	3.80	Steam	July 1, 1889	July 1, 1890
221	Topeka	Topeka City R'y Co.	Aug. 8, 1881	8	11.00	11.00	Animal	July 1, 1889	July 1, 1890
222	Topeka	Topeka Rapid Transit R'y Co.	Nov. 6, 1886	19	16.50	16.50	Electric	July 1, 1889	July 1, 1890
223	Wichita	Wichita Rapid Transit Co.	Feb. 3, 1887	7	4.50	4.50	Animal	July 1, 1889	July 1, 1890
224	Winfield	Union Street R'y Co.	Jan. 7, 1886	8	4.50	4.50	Animal	July 1, 1889	July 1, 1890
KENTUCKY.									
225	Bowling Green	Park City R'y	—	10	1.59	1.59	Animal	July 1, 1889	July 1, 1890
226	Covington	South Covington and Cincinnati Street R'y Co.	Jan. 25, 1876	18	15.34	18.34	Animal	July 1, 1889	July 1, 1890
227	Henderson	Henderson Street R'y Co.	Feb. 13, 1886	22	4.25	4.25	Animal	July 1, 1889	July 1, 1890
228	Louisville	Louisville R'y Co.	Jan. 22, 1867	11	—	84.42	E. and A.	July 1, 1889	July 1, 1890
229	Maysville	Maysville Street R. R. and Transfer Co.	Jan. 21, 1868	5	3.00	3.00	Animal	July 1, 1889	July 1, 1890
230	Owensboro	Owensboro City R'y Co.	—	7	4.90	4.90	Animal	—	July 1, 1890
231	Paducah	Paducah Street R'y Co.	—, 1876	14	8.00	8.00	Animal	—	—

STREET RAILWAYS.

29

TABLE 1.—LIST OF STREET RAILWAY COMPANIES REPORTING, SHOWING LENGTH OF LINE, ETC.—Continued.

No.	STATES AND CITIES.	Name of company.	Date of corporate charter.	Number of stockholders.	LENGTH OF LINE. (Miles.)		Kind of motive power.	PERIOD OF TIME COVERED BY REPORT.	
					Owued.	Operated.		From—	To—
LOUISIANA.									
232	New Orleans	Canal and Claiborne R. R. Co.	June 26, 1888	51	13.00	13.00	Animal	July 1, 1889	July 1, 1890
233	New Orleans	Crescent City R. R. Co.	Aug. 30, 1866	152	13.00	13.00	Animal	July 1, 1889	July 1, 1890
234	New Orleans	New Orleans and Carrollton R. R. Co.	—, 1883	223	16.00	16.00	Animal	July 1, 1889	July 1, 1890
235	New Orleans	New Orleans City and Lake R. R. Co.	May 17, 1883	402	40.00	40.00	A. and S.	July 1, 1889	July 1, 1890
236	New Orleans	New Orleans, Spanish Fort and Lake R. R. Co.	Mar. 31, 1879	6	6.70	6.70	Steam	July 1, 1889	July 1, 1890
237	New Orleans	Orleans R. R. Co.	July 1, 1887	80	9.50	9.50	Animal	July 1, 1889	July 1, 1890
238	New Orleans	Saint Charles Street R. R. Co.	Sept. 27, 1866	238	11.14	11.38	Animal	July 1, 1889	July 1, 1890
MAINE.									
239	Biddeford	Biddeford and Saco R. R. Co.	—, 1885	85	5.73	5.73	Animal	July 1, 1889	July 1, 1890
240	Fryeburg	Fryeburg Horse R. R. Co.	Mar. 3, 1887	26	3.00	3.00	Animal	Oct. 1, 1889	Oct. 1, 1890
241	Portland	Portland R. R. Co.	Mar. 19, 1860	93	11.31	11.31	Animal	Oct. 1, 1889	Oct. 1, 1890
MARYLAND.									
242	Baltimore	Baltimore and Powhatan R'y Co.	Nov. 13, 1877	8	6.00	6.00	Animal	July 1, 1889	July 1, 1890
243	Baltimore	Baltimore City Passenger R'y Co.	Feb. 13, 1862	220	22.50	22.50	Animal	July 1, 1889	July 1, 1890
244	Baltimore	Baltimore Traction Co.	—, 1888	123	15.00	15.00	Animal	July 1, 1889	July 1, 1890
245	Baltimore	Baltimore Union Passenger R'y Co.	—, 1882	28	28.44	28.83	Animal	Jan. 1, 1890	Jan. 1, 1891
246	Baltimore	Highlandtown and Point Breeze R'y Co.	Mar. —, 1880	8	10.53	11.00	Animal	Jan. 1, 1890	Jan. 1, 1891
247	Baltimore	North Avenue R'y Co. of Baltimore City	Nov. 1, 1889	7	1.63	1.63	Electric	May 18, 1890	July 1, 1890
248	Baltimore	North Baltimore Passenger R'y Co.	Apr. 1, 1872	108	10.50	10.50	Animal	Dec. 1, 1889	Dec. 1, 1890
MASSACHUSETTS.									
249	Attleboro	Attleboro, North Attleboro and Wrentham Street R'y Co.	June 24, 1889	18	6.00	6.00	Electric	Apr. 1, 1890	Oct. 1, 1890
250	Beverly	Beverly and Danvers Street R'y Co.	May 27, 1889	37	3.09	4.44	Electric	Nov. 1, 1889	Oct. 1, 1890
251	Boston	Boston and Chelsea Street R. R. Co.	Apr. 29, 1854	96	4.12	(a)	Animal	Oct. 1, 1889	Oct. 1, 1890
252	Boston	Boston and Revere Electric Street R'y Co.	June 24, 1889	8	2.19	2.19	Electric	July 1, 1889	July 1, 1890
253	Boston	Lynn and Boston R. R. Co.	Apr. 6, 1859	158	48.84	57.65	A. and E.	Oct. 1, 1889	Oct. 1, 1890
254	Boston	Malden and Melrose R. R. Co.	June 6, 1856	51	6.29	(b)	Animal	Oct. 1, 1889	Oct. 1, 1890
255	Boston	Newton Street R'y Co.	June 29, 1886	16	c5.48	c5.48	E. and A.	July 1, 1889	July 1, 1890
256	Boston	North Woburn Street R. R. Co.	—, 1886	65	7.34	7.80	Animal	Oct. 1, 1889	Oct. 1, 1890
257	Boston	Quincy and Boston Street R'y Co.	Aug. 24, 1888	60	3.61	7.87	Electric	Oct. 1, 1889	Oct. 1, 1890
258	Boston	Somerville Horse R. R. Co.	May 29, 1857	28	4.88	(b)	Animal	Oct. 1, 1889	Oct. 1, 1890
259	Boston	West End Street R'y Co.	Feb. 1, 1887	3,268	134.61	149.90	A. and E.	Oct. 1, 1889	Oct. 1, 1890
260	Brockton	Brockton Street R'y Co.	Dec. 28, 1880	72	12.75	12.75	Animal	Oct. 1, 1889	Oct. 1, 1890
261	Brockton	East Side Street R'y Co.	Mar. 8, 1888	125	4.25	4.25	Electric	Oct. 1, 1889	Oct. 1, 1890
262	Fall River	Globe Street R'y Co.	Apr. 16, 1880	117	12.29	12.29	Animal	Oct. 1, 1889	Oct. 1, 1890
263	Fitchburg	Fitchburg Street R'y Co.	Apr. 10, 1886	24	6.30	6.30	Animal	July 1, 1889	July 1, 1890
264	Gloucester	Gloucester Street R'y Co.	Dec. 29, 1885	9	5.03	5.03	Animal	July 1, 1889	July 1, 1890
265	Haverhill	Haverhill and Groveland Street R'y Co.	—, 1877	67	12.40	12.40	Animal	Oct. 1, 1889	Oct. 1, 1890
266	Holyoke	Holyoke Street R'y Co.	June 11, 1884	26	5.90	5.90	Animal	July 1, 1889	July 1, 1890
267	Lawrence	Merrimack Valley Horse R. R. Co.	—, 1867	28	9.81	9.81	Animal	Oct. 1, 1889	Oct. 1, 1890
268	Lowell	Lowell and Dracut Street R'y Co.	Apr. 14, 1887	62	10.81	10.81	A. and E.	July 1, 1889	July 1, 1890
269	Lowell	Lowell Horse R. R. Co.	Apr. 23, 1863	58	12.08	12.17	Animal	July 1, 1889	July 1, 1890
270	Marlboro	Marlboro Street R'y Co.	Mar. 27, 1888	7	2.51	2.51	Electric	Oct. 1, 1889	Oct. 1, 1890
271	Natick	Natick and Cohichuate Street R'y Co.	May —, 1885	52	3.00	3.00	Animal	July 1, 1889	July 1, 1890
272	New Bedford	Union Street R'y Co.	Mar. 18, 1887	161	13.34	13.34	Animal	July 1, 1889	July 1, 1890
273	Newburyport	Newburyport and Amesbury Horse R. R. Co.	May 23, 1871	34	14.99	14.99	A. and E.	Oct. 1, 1889	Oct. 1, 1890
274	North Adams	Hoosac Valley Street R'y Co.	Apr. 7, 1886	10	5.93	5.93	Electric	Jan. 1, 1890	Jan. 1, 1891
275	Northampton	Northampton Street R'y Co.	Feb. 26, 1873	8	3.20	3.20	Animal	July 1, 1889	July 1, 1890
276	Onset	Onset Street R'y Co.	June 16, 1886	22	1.00	1.00	Steam	Oct. 1, 1889	Oct. 1, 1890
277	Pittsfield	Pittsfield Street R'y Co.	Apr. 21, 1886	46	3.33	3.33	Animal	July 1, 1889	July 1, 1890
278	Plymouth	Plymouth and Kingston Street R'y Co.	Feb. —, 1889	33	4.25	4.25	Electric	Oct. 1, 1889	Oct. 1, 1890
279	Springfield	Springfield Street R'y Co.	May 5, 1868	139	20.75	20.75	A. and E.	Oct. 1, 1889	Oct. 1, 1890
280	Taunton	Taunton Street R'y Co.	Feb. 12, 1870	164	7.50	7.50	Animal	Oct. 1, 1889	Oct. 1, 1890
281	Wareham	East Wareham, Onset Bay and Point Independence Street R'y Co.	Feb. 15, 1888	45	1.67	1.67	Animal	Oct. 1, 1889	Oct. 1, 1890
282	Worcester	Worcester Consolidated Street R'y Co.	—, 1869	41	12.50	12.50	Animal	July 1, 1889	July 1, 1890
MICHIGAN.									
283	Adrian	Adrian City Electric Belt R'y Co.	Aug. 30, 1888	15	2.80	2.80	Electric	Oct. 1, 1889	July 1, 1890
284	Bay city	West Bay City Street R'y Co.	Sept. 28, 1887	23	4.00	4.00	Electric	Jan. 1, 1890	Sept. 1, 1890
285	Detroit	Detroit City R'y	May 8, 1863	27	28.90	32.50	Animal	Jan. 1, 1890	Jan. 1, 1891
286	Detroit	Detroit, Rouge River and Dearborn R'y Co.	—, 1887	4	1.25	1.25	Electric	—, 1889	July 1, 1890
287	Detroit	East Detroit and Grossepoint R'y Co.	May —, 1887	14	8.00	9.15	Electric	July 1, 1889	July 1, 1890
288	Detroit	Fort Wayne and Elmwood R'y Co.	Jan. 31, 1865	60	14.00	14.00	Animal	Jan. 1, 1890	Jan. 1, 1891
289	Detroit	Highland Park R'y Co.	Oct. —, 1885	5	3.50	3.50	Electric	July 1, 1889	July 1, 1890
290	Grand Rapids	Street R'y Co. of Grand Rapids	Aug. 17, 1885	31	13.50	13.50	A. and S.	July 1, 1889	July 1, 1890
291	Grand Rapids	Valley City Street and Cable R'y Co.	June 6, 1887	33	15.05	15.05	A. and C.	July 1, 1889	July 1, 1890
292	Jackson	Jackson City R'y Co.	Aug. 24, 1881	6	5.00	5.00	Animal	July 1, 1889	July 1, 1890
293	Muskegon	Muskegon R'y Co.	Sept. 8, 1882	15	6.00	6.00	Electric	—, 1889	July 1, 1890
294	Port Huron	Gratiot Electric R'y Co.	Apr. 7, 1887	7	5.25	5.25	Electric	Jan. 1, 1890	Jan. 1, 1891
295	Saginaw	City of Saginaw Street R. R. Co.	Feb. 6, 1886	6	3.00	3.00	Animal	July 1, 1889	July 1, 1890
296	Saginaw	Saginaw Union Street R'y	Oct. 5, 1887	10	15.50	15.50	A. and E.	Jan. 1, 1890	July 1, 1890
297	Sault Ste. Marie	Sault Ste. Marie Street R'y Co.	Aug. 25, 1887	5	4.00	4.00	Electric	July 1, 1889	July 1, 1890
MINNESOTA.									
298	Anoka	Anoka Street R'y Co.	July 3, 1884	4	2.75	2.75	Animal	July 1, 1889	July 1, 1890
299	Duluth	Duluth Street R'y Co.	Nov. 27, 1881	—	3.50	3.50	Animal	July 1, 1889	July 1, 1890
300	Mankato	Mankato Street R'y Co.	June 14, 1886	8	3.33	3.33	Animal	July 1, 1889	July 1, 1890
301	Minneapolis	Minneapolis, Lyndale and Minnetonka R'y Co.	July 19, 1879	5	18.00	18.00	Steam	July 1, 1889	July 1, 1890
302	Minneapolis	Minneapolis Street R'y Co.	July 1, 1873	—	40.00	40.00	Animal	July 1, 1889	July 1, 1890
303	Saint Cloud	Saint Cloud City Street Car Co.	Apr. 11, 1887	14	1.50	1.50	Animal	July 1, 1889	July 1, 1890
304	Saint Paul	Saint Paul City R'y Co.	Mar. 2, 1853	42	25.27	25.27	A., C., & E.	July 1, 1889	July 1, 1890
305	Stillwater	Stillwater Street R'y Co.	June —, 1887	7	5.25	5.25	Electric	July 1, 1889	July 1, 1890
306	Winona	Winona City R'y Co.	May 25, 1883	13	4.82	4.82	Animal	July 1, 1889	July 1, 1890

a Operated by Lynn and Boston and West End companies, and included in operated mileage of both companies.

b Operated by West End Street R'y Co.

mal power used in all tables as electric power was not adopted until late in the year

TABLE 1.—LIST OF STREET RAILWAY COMPANIES REPORTING, SHOWING LENGTH OF LINE, ETC.—Continued.

No.	STATES AND CITIES.	Name of company.	Date of corporate charter.	Number of stockholders.	LENGTH OF LINE. (Miles.)		Kind of motive power.	PERIOD OF TIME COVERED BY REPORT.	
					Owued.	Operated.		From—	To—
MISSISSIPPI.									
307	Enterprise	Enterprise Street R'y Co	—, 1882	3	1.25	1.25	Animal	July 1, 1889	July 1, 1890
308	Jackson	Jackson City R'y Co.	Aug. 24, 1881	7	3.00	5.00	Animal	July 1, 1889	July 1, 1890
309	Meridian	Meridian Street R. R. Co.	Mar. —, 1883	25	4.00	4.00	Animal	July 1, 1889	July 1, 1890
310	Natchez	Natchez Street R. R. Co.	Mar. 9, 1886	2	4.00	4.00	Animal	July 1, 1889	July 1, 1890
MISSOURI.									
311	Carthage	Carthage Horse R'y Co	Aug. —, 1883	5	3.00	3.00	Animal	May 1, 1890	Aug. 1, 1890
312	Clinton	Clinton Street R'y Co	—, 1887	4	1.50	1.50	Animal	July 1, 1889	July 1, 1890
313	Hannibal	Hannibal R'y Co.	May —, 1878	3	1.50	1.50	Animal	July 1, 1889	July 1, 1890
314	Kansas city	East Fifth Street R'y Co.	Aug. 3, 1885	5	2.25	2.25	Steam	July 1, 1889	July 1, 1890
315	Kansas city	Grand Avenue R'y Co.	Mar. —, 1886	95	12.13	12.13	A., C., & S.	July 1, 1889	July 1, 1890
316	Kansas city	Kansas City and Independence Rapid Transit R'y.	Feb. —, 1889	26	8.16	8.16	Steam	July 1, 1889	July 1, 1890
317	Kansas city	Kansas City Cable R'y Co	July 3, 1883	95	10.15	10.15	Cable	July 1, 1889	July 1, 1890
318	Kansas city	Metropolitan Street R'y Co	July 19, 1886	173	22.07	22.07	A., C., & E.	July 1, 1889	July 1, 1890
319	Kansas city	North East Street R'y Co.	July 13, 1889	21	3.50	3.50	Electric	Mar. 8, 1890	Jan. 1, 1891
320	Kansas city	North Kansas City Street R'y	—	—	2.25	2.25	Animal	Sept. 13, 1889	July 1, 1890
321	Kansas city	People's Cable R'y Co	Feb. 1, 1887	83	3.40	3.40	Cable	Feb. 1, 1890	Oct. 1, 1890
322	Kansas city	Union R'y Co.	June 8, 1888	50	2.51	2.51	Cable	July 1, 1889	July 1, 1890
323	Kansas city	Vine Street Motor R'y Co	—	6	3.00	3.00	Electric	Aug. 1, 1890	Feb. 1, 1891
324	Saint Joseph	People's Street Railway and Electric Light and Power Co.	Mar. 1, 1889	—	7.00	7.00	Electric	Jan. 1, 1890	Jan. 1, 1891
325	Saint Joseph	Wyatt Park R'y Co	June 23, 1887	20	6.38	6.38	Electric	July 1, 1889	July 1, 1890
326	Saint Louis	Baden and Saint Louis R. R.	Mar. —, 1870	16	3.00	3.00	Animal	July 1, 1889	July 1, 1890
327	Saint Louis	Benton-Bellefontaine R'y Co.	—, 1864	29	7.00	7.00	Animal	July 1, 1889	July 1, 1890
328	Saint Louis	Cass Avenue and Fair Ground R'y Co.	—, 1874	6	3.50	3.50	Animal	July 1, 1889	July 1, 1890
329	Saint Louis	Citizen's R'y Co.	—, 1884	—	8.50	8.50	C. and A.	July 1, 1889	July 1, 1890
330	Saint Louis	Forest Park, Laclede and Fourth Street R'y Co.	June 30, 1884	33	2.79	4.30	Animal	July 1, 1889	July 1, 1890
331	Saint Louis	Fourth Street and Arsenal R'y Co.	Jan. 31, 1888	46	3.00	3.00	Animal	July 1, 1889	July 1, 1890
332	Saint Louis	Jefferson Avenue R. R. Co.	—	—	2.85	2.85	Animal	July 1, 1889	July 1, 1890
333	Saint Louis	Lindell R'y Co.	Jan. 24, 1884	72	5.50	5.50	A. and E.	July 1, 1889	July 1, 1890
334	Saint Louis	Missouri R. R. Co.	May 10, 1859	42	8.25	8.25	A. and C.	July 1, 1889	July 1, 1890
335	Saint Louis	Mound City Street R'y Co.	—, 1876	10	5.82	5.82	Animal	July 1, 1889	July 1, 1890
336	Saint Louis	Northern Central R'y Co	—, 1884	6	8.00	8.00	Animal	July 1, 1889	July 1, 1890
337	Saint Louis	People's R'y Co.	Mar. 18, 1882	46	5.00	5.00	Cable	May 1, 1890	July 1, 1890
338	Saint Louis	Saint Louis and Suburban R'y	Sept. 11, 1884	8	18.91	18.91	C. and S.	July 1, 1889	July 1, 1890
339	Saint Louis	Saint Louis R. R. Co.	Mar. 10, 1859	33	7.33	7.33	Animal	July 1, 1889	July 1, 1890
340	Saint Louis	Southern R'y Co.	Apr. 16, 1884	8	7.83	7.83	Animal	July 1, 1889	July 1, 1890
341	Saint Louis	Union Depot R. R. Co.	—, 1876	9	13.97	13.97	Animal	July 1, 1889	July 1, 1890
342	Saint Louis	Union R. R. Co.	—, 1875	6	4.00	4.00	Animal	July 1, 1889	July 1, 1890
343	Sedalia	Sedalia Street R'y Co	—	—	2.00	2.00	Animal	July 1, 1889	July 1, 1890
344	Springfield	Citizens' R'y Co	July 20, 1886	14	5.70	7.80	Animal	July 1, 1889	July 1, 1890
345	Warrensburg	Electric Springs R'y	May 23, 1889	—	2.25	2.25	Animal	Aug. 1, 1890	Dec. 1, 1890
MONTANA.									
346	Butte city	Butte City Street R'y Co.	Apr. —, 1887	3	8.50	8.50	S. and C.	July 1, 1889	July 1, 1890
347	Helena	Helena, Hot Springs and Smelter R. R. Co	—	—	3.50	3.50	Steam	—	—
348	Helena	Helena Street R'y Co.	Mar. 15, 1886	18	3.50	3.50	Animal	July 1, 1889	July 1, 1890
NEBRASKA.									
349	Beatrice	Beatrice Street R'y Co	—, 1885	13	4.00	4.00	Animal	July 1, 1889	July 1, 1890
350	Fremont	Fremont Street R'y Co	May 11, 1887	43	5.00	5.00	Animal	July 1, 1889	July 1, 1890
351	Grand Island	Grand Island Street R'y Co.	—, 1887	5	6.77	6.77	Animal	July 1, 1889	July 1, 1890
352	Hastings	Citizens' Street R'y Co	June —, 1887	15	4.00	4.00	Animal	—	—
353	Kearney	Kearney Street R'y Co.	July 28, 1886	44	4.00	4.00	Animal	July 1, 1889	July 1, 1890
354	Lincoln	Bethany Heights Street R'y Co.	June 1, 1889	15	3.00	3.00	Animal	July 1, 1889	July 1, 1890
355	Lincoln	Capital Heights Street R'y Co	May 21, 1887	9	3.25	3.25	A. and E.	Jan. 1, 1890	Jan. 1, 1891
356	Lincoln	Lincoln Street R'y Co	Apr. 7, 1885	18	12.84	12.84	Animal	July 1, 1889	July 1, 1890
357	Lincoln	South Lincoln Street R'y	—	—	2.50	2.50	Animal	July 1, 1889	July 1, 1890
358	Lincoln	Standard Street R'y Co	Apr. 6, 1888	3	6.25	6.25	Animal	July 1, 1890	Jan. 1, 1891
359	Nebraska city	Nebraska City Street R'y Co	Feb. 21, 1888	12	3.25	3.25	Animal	Jan. 1, 1890	Jan. 1, 1891
360	Norfolk	Norfolk Street R'y Co	Dec. —, 1887	6	2.50	2.50	Animal	July 1, 1889	July 1, 1890
361	Omaha	Omaha Street R'y Co	Jan. 1, 1889	66	51.50	51.50	A., E., & C.	Jan. 1, 1890	Jan. 1, 1891
362	Wymore	Wymore and Blue Springs R'y Co.	Nov. 4, 1884	6	3.75	3.75	Animal	July 1, 1889	July 1, 1890
363	York	York Street R'y Co	Apr. 16, 1888	3	2.05	2.05	Animal	July 1, 1889	July 1, 1890
NEW HAMPSHIRE.									
364	Dover	Dover Horse R. R.	Aug. 19, 1881	81	2.39	2.39	Animal	July 1, 1889	July 1, 1890
365	Laconia	Laconia and Lake Village Horse R. R.	—, 1881	32	2.45	2.45	Animal	Jan. 1, 1890	Jan. 1, 1891
366	Manchester	Manchester Street R'y	July 20, 1876	17	9.00	9.00	Animal	Oct. 1, 1889	July 1, 1890
367	Nashua	Nashua Street R'y	Aug. 14, 1885	29	3.90	3.90	Animal	Oct. 1, 1889	Oct. 1, 1890
NEW JERSEY.									
368	Asbury Park	Seashore Electric R'y Co	—, 1887	—	3.75	3.75	Electric	—	—
369	Atlantic city	Camden and Atlantic R. R. Co. (St. R'y Div.)	Mar. 19, 1852	236	3.12	3.12	Electric	July 1, 1889	July 1, 1890
370	Camden	Camden Horse R. R. Co	Mar. 23, 1866	14	14.12	14.12	Animal	July 1, 1889	July 1, 1890
371	Elizabeth	Elizabeth and Newark Horse R. R. Co. (a)	Mar. 25, 1864	—	12.62	12.62	Animal	July 1, 1889	July 1, 1890
372	Jersey city	Jersey City and Bergen R. R. Co.	Mar. 15, 1859	50	18.25	18.25	Animal	July 1, 1889	July 1, 1890
373	Jersey city	North Hudson County R'y Co	Mar. 27, 1874	116	24.90	24.90	A., C., & S.	Jan. 1, 1889	Jan. 1, 1890
374	Keyport	Keyport and Matawan Street R'y Co	July —, 1887	—	3.00	3.00	Animal	July 1, 1889	July 1, 1890
375	Newark	Essex Passenger R'y Co. (a)	Mar. 24, 1874	—	(b)	(b)	Animal	July 1, 1889	July 1, 1890
376	Newark	Newark and Irvington Street R'y Co. (a)	Apr. 20, 1880	13	2.90	2.90	Animal	July 1, 1889	July 1, 1890
377	Newark	Newark and South Orange Horse Car R. R.	Apr. 6, 1865	7	6.00	8.00	Animal	July 1, 1889	July 1, 1890
378	New Brunswick	New Brunswick City R. R. Co	—, 1868	—	2.61	2.61	Animal	—	—
379	Orange	Orange Cross Town and Bloomfield R'y Co	May 18, 1886	3	6.50	6.50	Animal	July 1, 1889	July 1, 1890
380	Paterson	Paterson R'y Co	—, 1888	20	14.00	14.00	Animal	July 1, 1889	July 1, 1890
381	Phillipsburg	Phillipsburg Car R. R. Co.	Feb. 27, 1868	29	2.25	2.25	Animal	July 1, 1889	July 1, 1890

a Sold July 1, 1890, to Newark Passenger R'y Co.

b No report of length of line owned or operated received from this road. See Table 2 for length of all tracks.

STREET RAILWAYS.

31

TABLE 1.—LIST OF STREET RAILWAY COMPANIES REPORTING, SHOWING LENGTH OF LINE, ETC.—Continued.

No.	STATES AND CITIES.	Name of company.	Date of corporate charter.	Number of stockholders.	LENGTH OF LINE. (Miles.)		Kind of motive power.	PERIOD OF TIME COVERED BY REPORT.	
					Owued.	Operated.		From—	To—
NEW MEXICO.									
382	Albuquerque	Albuquerque Street R. R. Co.	Feb. —, 1881	8	2.00	2.00	Animal	July 1, 1889	July 1, 1890
383	Las Vegas	Las Vegas Street R'y Co.	Dec. 20, 1880	14	1.50	1.50	Animal	July 1, 1889	July 1, 1890
NEW YORK.									
384	Albany	Albany R'y	Sept. 14, 1863	58	10.12	10.12	A. and E.	July 1, 1889	July 1, 1890
385	Albany	North and East Greenbush Horse R. R. Co.	May 10, 1873	7	1.70	1.70	Animal	July 1, 1889	July 1, 1890
386	Albany	Watervliet Turnpike and R. R. Co.	—, 1885	7	8.42	8.42	A. and E.	Oct. 1, 1889	Oct. 1, 1890
387	Amsterdam	Amsterdam Street R. R. Co.	Feb. 5, 1873	22	1.63	1.63	Animal	July 1, 1889	July 1, 1890
388	Auburn	Auburn City R'y Co.	Oct. 1, 1886	7	5.13	5.13	Animal	July 1, 1889	July 1, 1890
389	Babylon	Babylon Horse R. R.	Apr. 15, 1871	1	1.25	1.25	Animal	July 1, 1890	Oct. 1, 1890
390	Binghamton	Binghamton and Port Dickenson R. R. Co.	May 1, 1868	10	7.00	7.00	Animal	July 1, 1889	July 1, 1890
391	Binghamton	Binghamton Street R. R. Co.	Mar. 24, 1890	80	12.00	12.00	A. and E.	Mar. 24, 1890	July 1, 1890
392	Binghamton	Court Street and East End R. R. Co.	Mar. 23, 1886	12	3.25	3.25	Animal	July 1, 1889	July 1, 1890
393	Brooklyn	Atlantic Avenue R'y Co.	May 1, 1872	133	11.50	11.50	Animal	July 1, 1889	July 1, 1890
394	Brooklyn	Broadway R. R. Co. of Brooklyn	Aug. 20, 1858	87	11.09	11.09	Animal	July 1, 1889	July 1, 1890
395	Brooklyn	Brooklyn, Bushwick and Queens County R. R.	Feb. 7, 1885	9	6.00	6.12	Animal	July 1, 1889	July 1, 1890
396	Brooklyn	Brooklyn City and Newtown R. R. Co.	May 22, 1860	30	10.20	11.40	Animal	July 1, 1889	July 1, 1890
397	Brooklyn	Brooklyn City R. R. Co.	Dec. 17, 1853	745	40.45	78.35	Animal	July 1, 1889	July 1, 1890
398	Brooklyn	Brooklyn Cross Town R. R. Co.	Apr. 30, 1872	1	(a)	(a)	Animal	July 1, 1889	July 1, 1890
399	Brooklyn	Brooklyn Elevated R. R. Co.	May 26, 1874	217	7.38	17.93	Steam	July 1, 1889	July 1, 1890
400	Brooklyn	Bushwick R. R. Co.	Mar. 20, 1867	2	(a)	(a)	Animal	July 1, 1889	July 1, 1890
401	Brooklyn	Calvary Cemetery, Green Point and Brooklyn R. R. Co.	Jan. 3, 1885	3	(a)	(a)	Animal	July 1, 1889	July 1, 1890
402	Brooklyn	Coney Island and Brooklyn R. R. Co.	Dec. 10, 1860	90	10.76	11.60	A. and E(b)	July 1, 1889	July 1, 1890
403	Brooklyn	Fulton Elevated R. R. Co.	July 6, 1888	28	2.95	(c)	Steam	July 1, 1889	July 1, 1890
404	Brooklyn	Grand Street and Newtown R. R. Co.	Aug. 18, 1860	3	8.27	(a)	Animal	July 1, 1889	July 1, 1890
405	Brooklyn	Green Point and Lorimer Street R. R. Co.	Nov. 6, 1884	1	2.75	(a)	Animal	July 1, 1889	July 1, 1890
406	Brooklyn	Jamaica and Brooklyn Road Co.	—, 1879	11	6.40	6.40	Electric	July 1, 1889	July 1, 1890
407	Brooklyn	Kings County Elevated R'y Co.	Jan. 6, 1879	82	6.14	9.09	Steam	July 1, 1889	July 1, 1890
408	Brooklyn	New Williamsburg and Flatbush R. R. Co.	Oct. —, 1873	1	6.25	(a)	Animal	July 1, 1889	July 1, 1890
409	Brooklyn	Prospect Park and Coney Island R. R. Co. (City Div.).	—, 1867	—	3.50	d3.50	Animal	July 1, 1889	July 1, 1890
410	Brooklyn	Prospect Park and Flatbush R. R. Co.	Oct. 30, 1875	9	1.50	1.50	Animal	July 1, 1889	July 1, 1890
411	Brooklyn	Sea View R. R. Co.	June 4, 1886	36	1.00	1.00	Steam	July 1, 1889	July 1, 1890
412	Brooklyn	South Brooklyn Central R. R. Co.	—, 1877	15	4.00	4.00	Animal	July 1, 1889	July 1, 1890
413	Brooklyn	Van Brunt Street and Erie Basin R. R. Co.	Feb. 16, 1861	32	1.50	1.50	Animal	July 1, 1889	July 1, 1890
414	Buffalo	Buffalo East Side Street R'y Co.	May 10, 1870	10	31.70	31.70	Animal	July 1, 1889	July 1, 1890
415	Buffalo	Buffalo Street R. R. Co.	Apr. 6, 1860	10	8.60	10.60	A. and E.	July 1, 1889	July 1, 1890
416	Buffalo	West Side Street R'y Co.	Aug. 12, 1887	14	2.00	2.00	Animal	July 1, 1889	July 1, 1890
417	Canandaigua	Canandaigua Street R. R. Co.	May 4, 1886	21	2.50	2.50	Animal	July 1, 1889	July 1, 1890
418	Cortland	Cortland and Homer Horse R. R. Co.	Feb. 25, 1882	26	3.89	3.89	Animal	July 1, 1889	July 1, 1890
419	Elmira	Elmira and Horseheads R'y Co.	Dec. 26, 1870	15	17.40	17.40	A. and S.	July 1, 1889	July 1, 1890
420	Far Rockaway	Rockaway Village R. R. Co.	Mar. —, 1886	—	1.15	1.15	Animal	July 1, 1889	July 1, 1890
421	Frankfort	Frankfort and Ilion Street R. R. Co.	May 9, 1871	24	2.50	2.50	Animal	July 1, 1889	July 1, 1890
422	Fredonia	Dunkirk and Fredonia R. R. Co.	Apr. 21, 1864	19	3.51	3.51	Animal	July 1, 1889	July 1, 1890
423	Fulton	Fulton and Oswego Falls Street R'y Co.	Sept. 21, 1885	16	1.14	1.14	Animal	July 1, 1889	July 1, 1890
424	Glens Falls	Glens Falls, Sandy Hill and Fort Edward Street R'y Co.	Sept. 28, 1885	20	7.25	7.25	Animal	July 1, 1889	July 1, 1890
425	Ithaca	Ithaca Street R. R.	Nov. 18, 1884	7	1.00	1.00	Electric	July 1, 1889	July 1, 1890
426	Jamestown	Jamestown Street R'y Co.	Oct. 18, 1883	18	3.37	3.37	Animal	July 1, 1889	July 1, 1890
427	Johnstown	Johnstown, Gloversville and Kingsboro Horse R'y Co.	Nov. 12, 1873	46	4.08	4.08	Animal	July 1, 1889	July 1, 1890
428	Kingston	Kingston City R. R. Co.	June 5, 1879	18	2.78	2.78	Animal	July 1, 1889	July 1, 1890
429	Lockport	Lockport Street R. R. Co.	Oct. 6, 1885	2	2.99	2.99	Animal	July 1, 1889	July 1, 1890
430	Long Island city	Long Island City and Newtown R. R. Co.	May —, 1883	17	4.50	4.50	Animal	July 1, 1889	July 1, 1890
431	Long Island city	Steinway and Hunters Point R. R. Co.	Apr. 21, 1874	7	15.50	18.75	Animal	July 1, 1889	July 1, 1890
432	Mohawk	Herkimer and Mohawk Street R. R. Co.	Mar. 3, 1871	8	1.30	1.30	Animal	July 1, 1889	July 1, 1890
433	Mohawk	Mohawk and Ilion Horse R. R. Co.	Apr. 12, 1870	23	1.75	1.75	Animal	July 1, 1889	July 1, 1890
434	New Brighton	Staten Island Belt Line R. R. Co.	July 26, 1887	—	7.00	7.00	Animal	July 1, 1889	July 1, 1890
435	Newburg	Newburg Street R'y Co.	Jan. 13, 1886	8	3.50	3.50	Animal	July 1, 1889	July 1, 1890
436	New York	Broadway and Seventh Avenue R. R. Co.	May 26, 1864	196	8.33	11.69	Animal	Jan. 1, 1890	Jan. 1, 1891
437	New York	Central Cross Town R. R. Co.	Mar. 28, 1873	55	2.04	5.79	Animal	July 1, 1889	July 1, 1890
438	New York	Central Park, North and East River R. R. Co.	July 19, 1860	267	9.58	13.00	Animal	July 1, 1889	July 1, 1890
439	New York	Chambers Street and Grand Street Ferry R. R. Co.	Aug. 9, 1884	8	2.33	2.33	Animal	Jan. 1, 1890	Jan. 1, 1891
440	New York	Christopher and Tenth Street R. R. Co.	Apr. 25, 1873	140	3.25	3.75	Animal	July 1, 1889	May 1, 1890
441	New York	Dry Dock, East Broadway and Battery R. R. Co.	Dec. 8, 1863	275	7.92	10.73	Animal	July 1, 1889	July 1, 1890
442	New York	Eight Avenue R. R. Co.	Jan. 10, 1855	82	10.00	10.00	Animal	July 1, 1889	July 1, 1890
443	New York	Forty-second Street and Grand Street Ferry R. R. Co.	Feb. 16, 1863	117	4.25	5.13	Animal	July 1, 1889	July 1, 1890
444	New York	Forty-second Street, Manhattanville and Saint Nicholas Avenue R'y Co.	Aug. 29, 1878	259	9.41	10.71	Animal	July 1, 1889	July 1, 1890
445	New York	Harlem Bridge, Morrisania and Fordham R'y Co.	May 2, 1863	22	9.09	9.09	Animal	July 1, 1889	July 1, 1890
446	New York	Houston, West Street and Pavonia Ferry R. R. Co.	June 4, 1874	8	3.76	5.13	Animal	July 1, 1889	July 1, 1890
447	New York	Jerome Park R'y Co.	Apr. 26, 1880	1	1.08	1.08	Steam	July 1, 1889	July 1, 1890
448	New York	Larchmont Horse R'y Co	Feb. 7, 1888	10	1.50	1.50	Animal	July 1, 1889	July 1, 1890
449	New York	Manhattan R'y Co	Dec. 29, 1875	805	e14.32	32.40	Steam	July 1, 1889	July 1, 1890
450	New York	Metropolitan Elevated R'y Co.	June 17, 1872	8	18.08	(f)	Steam	July 1, 1889	July 1, 1890
451	New York	Mount Vernon and East Chester R'y Co	Nov. 14, 1887	10	4.00	4.00	Animal	July 1, 1889	July 1, 1890
452	New York	New Rochelle and Pelham R'y Co	Sept. 12, 1890	22	7.00	7.00	Animal	July 1, 1889	July 1, 1890
453	New York	New York and Brooklyn Bridge	—	—	1.14	1.14	Cable	July 1, 1889	July 1, 1890

a Leased to Brooklyn City R. R. Co.

b Electricity not in use at date of this report. Statistics are for animal power in all tables except Table 6, "Capital", etc., and Table 8, "Balance sheet".

c Leased to Kings County Elevated R'y Co.

d Leased to Atlantic Avenue R'y Co., but operations, etc., reported separately.

e Nominally owned by the New York Elevated R. R. Co.

f Leased to Manhattan R'y Co.

TABLE 1.—LIST OF STREET RAILWAY COMPANIES REPORTING, SHOWING LENGTH OF LINE, ETC.—Continued.

No.	STATES AND CITIES.	Name of company.	Date of corporate charter.	Number of stockholders.	LENGTH OF LINE. (Miles.)		Kind of motive power.	PERIOD OF TIME COVERED BY REPORT.	
					Owued.	Operated.		From—	To—
NEW YORK—cont'd.									
454	New York	New York and Harlem R. R. Co. (St. R'y Div.)	Apr. 25, 1831	709	8.58	8.58	Animal	July 1, 1889	July 1, 1890
455	New York	Ninth Avenue R. R. Co.	July 29, 1859	98	8.00	8.00	Animal	July 1, 1889	July 1, 1890
456	New York	Pelham Park R. R. Co.	Aug. 30, 1884	13	1.40	3.00	Animal	July 1, 1889	July 1, 1890
457	New York	Second Avenue R. R. Co.	Jan. 21, 1853	250	13.50	13.50	Animal	July 1, 1889	July 1, 1890
458	New York	Sixth Avenue R. R. Co.	Sept. 6, 1851	168	3.81	4.56	Animal	July 1, 1889	July 1, 1890
459	New York	Suburban Rapid Transit Co.	Mar. 6, 1880	32	3.22	3.22	Steam	July 1, 1889	July 1, 1890
460	New York	Third Avenue R. R. Co.	Oct. 3, 1853	181	14.00	14.00	A. and C.	July 1, 1889	July 1, 1890
461	New York	Twenty-third Street R'y Co.	Jan. 29, 1872	185	2.87	6.87	Animal	July 1, 1889	July 1, 1890
462	Niagara Falls	Niagara Falls and Suspension Bridge R'y Co.	Oct. 20, 1882	39	1.99	1.99	Animal	July 1, 1889	July 1, 1890
463	Ogdensburg	Ogdensburg Street R'y Co.	Dec. 19, 1885	14	4.44	4.44	Animal	July 1, 1889	July 1, 1890
464	Olean	Olean Street R'y Co.	Mar. 1, 1880	15	1.10	1.10	Animal	July 1, 1889	July 1, 1890
465	Oneida	Oneida R'y Co.	May 14, 1885	19	1.50	1.50	Animal	July 1, 1889	July 1, 1890
466	Oneonta	Oneonta Street R'y Co.	Nov. 28, 1887	13	2.27	2.27	Animal	July 1, 1889	July 1, 1890
467	Oswego	Oswego Street R'y Co.	May 7, 1885	54	2.03	2.03	Animal	July 1, 1889	July 1, 1890
468	Rochester	Rochester Electric R'y Co.	Aug.—, 1887	41	4.70	4.70	Electric	July 3, 1889	July 1, 1890
469	Rochester	Rochester R'y Co.	Feb. 25, 1890	246	31.13	31.13	Animal	July 1, 1889	July 1, 1890
470	Rome	Rome City Street R'y Co.	Dec. 22, 1885	10	5.50	5.50	Animal	July 1, 1889	July 1, 1890
471	Schenectady	Schenectady Street R'y Co.	Feb. 25, 1886	7	2.00	2.00	Animal	July 1, 1889	July 1, 1890
472	Stillwater	Stillwater and Mechanicsville Street R'y Co.	Nov. 13, 1882	41	4.35	4.35	Animal	July 1, 1889	July 1, 1890
473	Syracuse	Central City R'y Co.	Apr. 19, 1889	19	2.88	2.88	Animal	July 1, 1889	July 1, 1890
474	Syracuse	Fifth Ward R. R. Co.	Oct. 3, 1867	10	2.95	2.95	Animal	July 1, 1889	July 1, 1890
475	Syracuse	Fourth Ward R'y Co.	May 21, 1888	25	22.75	2.80	Animal	July 1, 1889	July 1, 1890
476	Syracuse	Genesee and Water Street R. R. Co.	Oct. 13, 1865	25	63.75	3.75	Animal	July 1, 1889	July 1, 1890
477	Syracuse	New Brighton and Onondaga Valley R. R. Co.	May 3, 1869	6	1.88	2.63	Animal	July 1, 1889	July 1, 1890
478	Syracuse	People's R. R. Co. of Syracuse	Apr. 22, 1887	19	5.95	5.95	Animal	July 1, 1889	July 1, 1890
479	Syracuse	Syracuse and Geddes R'y Co.	July 10, 1863	32	2.00	2.00	Animal	July 1, 1889	July 1, 1890
480	Syracuse	Syracuse and Onondaga R'y Co.	Apr. 29, 1863	14	2.00	2.00	Animal	July 1, 1889	July 1, 1890
481	Syracuse	Third Ward R'y Co.	Feb. 6, 1886	10	63.00	3.00	Electric	July 1, 1889	July 1, 1890
482	Syracuse	Woodlawn and Butternut Street R'y Co.	May 15, 1886	25	1.76	2.19	Animal	July 1, 1889	July 1, 1890
483	Troy	Lansingburg and Cohoes R. R. Co.	Mar. 8, 1880	38	—	(c)	Animal	July 1, 1889	July 1, 1890
484	Troy	Troy and Albion Horse R. R. Co.	Jan. 31, 1866	13	3.17	3.17	Animal	July 1, 1889	July 1, 1890
485	Troy	Troy and Cohoes R. R. Co.	Feb. 11, 1862	30	—	(c)	Animal	July 1, 1889	July 1, 1890
486	Troy	Troy and Lansingburg R. R. Co.	Sept. 6, 1860	131	6.62	13.31	A. and E.	July 1, 1889	July 1, 1890
487	Utica	Utica and Mohawk R. R. Co.	Jan. 4, 1874	57	2.75	2.75	Animal (d)	July 1, 1889	July 1, 1890
488	Utica	Utica Belt Line Street R. R. Co.	June 18, 1886	36	15.72	15.72	Electric	Mar. 1, 1890	July 1, 1890
NORTH CAROLINA.									
489	Asheville	Asheville Street R'y Co.	Mar. 9, 1881	38	4.19	4.19	Electric	July 1, 1889	July 1, 1890
490	Charlotte	Charlotte Street R'y Co.	—, 1883	6	2.50	2.50	Animal	July 1, 1889	July 1, 1890
491	Raleigh	Raleigh Street R'y Co.	Jan. 30, 1881	8	5.00	5.00	Animal	July 1, 1889	July 1, 1890
OHIO.									
492	Akron	Akron Street R. R. Co.	July 7, 1888	14	10.00	10.00	Electric	July 1, 1889	July 1, 1890
493	Bellaire	Bellaire Street R'y Co.	Dec.—, 1887	9	2.50	2.50	Animal	July 1, 1889	July 1, 1890
494	Berea	Berea Street R. R. Co.	Nov. 21, 1873	6	1.15	1.15	Animal	July 1, 1889	July 1, 1890
495	Canton	Canton Street R'y Co. and Lakeside Street R. R. Co.	June —, 1885	7	8.25	8.25	Electric	Sept. 27, 1889	July 1, 1890
496	Cincinnati	Cincinnati Incline Plane R'y Co.	—	—	3.25	3.25	Electric	July 1, 1889	July 1, 1890
497	Cincinnati	Cincinnati Street R'y Co.	June 21, 1880	1,406	50.07	52.64	A., C., & E.	July 1, 1889	July 1, 1890
498	Cincinnati	Mount Adams and Eden Park Inclined R'y	Nov. 16, 1877	268	7.50	7.50	A. and C.	July 1, 1889	July 1, 1890
499	Cincinnati	Mount Auburn Cable R'y Co.	Mar. 2, 1885	30	4.51	4.51	Cable	July 1, 1889	July 1, 1890
500	Cleveland	Broadway and Newburg Street R. R. Co.	—	9	6.95	6.95	Electric	Jan. 1, 1889	Jan. 1, 1890
501	Cleveland	Brooklyn Street R. R. Co.	Aug. 25, 1869	14	13.84	16.00	A. and E.	Jan. 1, 1890	Jan. 1, 1891
		South Side Street R. R. Co.	Mar. 2, 1872	6	—	—	—	—	—
502	Cleveland	Cleveland City Cable R'y Co.	—, 1889	—	12.00	12.00	Animal	—	July 1, 1890
503	Cleveland	East Cleveland R. R. Co.	Sept.—, 1859	62	19.50	19.50	Electric	Jan. 1, 1890	Jan. 1, 1891
504	Cleveland	Lake View and East Cleveland Street R'y Co.	Mar.—, 1887	8	2.68	2.68	Electric	Aug. 7, 1889	July 1, 1890
505	Cleveland	Woodland Avenue and West Side Street R. R. Co.	Feb. 1, 1885	60	22.00	22.00	Animal	July 1, 1889	July 1, 1890
506	Columbus	Columbus Consolidated Street R. R. Co.	—, 1879	21	16.50	16.50	Animal	Jan. 1, 1890	Jan. 1, 1891
507	Columbus	Glenwood and Greenlawn Street R'y Co.	Apr. 22, 1872	32	4.50	4.50	Animal	Apr. 1, 1889	Apr. 1, 1890
508	Dayton	Dayton and Soldiers' Home R. R. Co.	July 18, 1889	10	2.00	2.00	Electric	Apr. 7, 1890	July 1, 1890
509	Dayton	Dayton Street R. R. Co.	June —, 1868	52	4.35	4.35	Animal	July 1, 1889	July 1, 1890
510	Dayton	Fifth Street R. R. Co.	Aug. 16, 1880	56	4.50	4.50	Animal	July 1, 1889	July 1, 1890
511	Dayton	Oakwood Street R'y Co.	Mar. 17, 1871	9	2.75	2.75	Animal	July 1, 1889	July 1, 1890
512	Dayton	Wayne and Fifth Street R. R. Co.	Aug. 3, 1871	14	4.00	4.00	Animal	July 1, 1889	July 1, 1890
513	Findlay	Blanchard Avenue Street R'y Co.	—, 1888	5	5.00	5.00	Animal	July 1, 1889	July 1, 1890
514	Findlay	Findlay Street R'y Co.	Sept.—, 1887	12	8.00	8.00	Animal	July 1, 1889	July 1, 1890
515	Findlay	Lima Avenue Street R'y Co.	—	12	63.25	63.25	Animal	July 1, 1889	July 1, 1890
516	Findlay	Wyoming Place and Findlay Street R'y Co.	June —, 1887	1	1.25	1.25	Animal	July 1, 1889	July 1, 1890
517	Fremont	Fremont Street R'y Co.	Apr. 13, 1889	6	2.00	2.00	Animal	—	July 1, 1890
518	Hamilton	Hamilton Street Railway and Electric Co.	July 9, 1889	6	3.00	3.00	Animal	—	July 1, 1890
519	Lima	Lima Street Railway, Motor and Power Co.	July 30, 1886	5	4.00	4.00	Electric	—	July 1, 1890
520	Lorain	Lorain Street R'y Co.	Nov. 28, 1888	16	1.36	1.36	Animal	July 1, 1889	July 1, 1890
521	Mansfield	Mansfield Electric Street R'y Co.	Apr. 21, 1887	12	4.50	4.50	Electric	July 1, 1889	July 1, 1890
522	Middletown	Middletown and Madison Street R'y Co.	—, 1879	5	1.50	1.50	Animal	July 1, 1889	July 1, 1890
523	Newark	Newark and Granville Electric Street R'y Co.	May 10, 1888	49	3.00	3.00	Electric	Dec. 24, 1889	July 1, 1890
524	Newark	Newark City R'y Co.	Apr. 1, 1887	5	4.00	4.00	Animal	July 1, 1889	July 1, 1890
525	Piqua	Piqua Street R'y Co.	Aug. 15, 1889	12	4.00	4.00	Electric	Jan. 15, 1890	July 1, 1890
526	Salem	Salem Electric R'y Co.	Oct. 2, 1889	8	2.42	2.42	Electric	May 23, 1890	July 1, 1890
527	Sandusky	Sandusky Street R'y Co.	Aug. 29, 1881	20	4.00	4.00	Animal	Jan. 1, 1890	Jan. 1, 1891
528	Springfield	Citizens' Street R. R. Co.	Jan. 15, 1883	5	11.11	11.11	Animal	July 1, 1889	July 1, 1890
529	Steubenville	Steubenville Street R'y Co.	June 28, 1888	12	2.50	2.50	Electric	July 1, 1889	July 1, 1890
530	Tiffin	Tiffin Street R'y Co.	—	7	5.50	5.50	Animal	—	July 1, 1890
531	Toledo	Toledo Consolidated Street R'y Co.	Jan. 1, 1885	3	32.09	32.09	Animal	July 1, 1889	July 1, 1890
532	Youngstown	Youngstown Street R. R. Co.	Dec. 10, 1873	7	2.00	2.00	Animal	July 1, 1889	July 1, 1890
533	Zanesville	Zanesville and McIntire Street R'y Co.	Aug. 11, 1875	5	3.00	3.00	Animal	July 1, 1889	July 1, 1890

a Sold to Syracuse Consolidated Street R'y Co., July 1, 1890.

b Leased to Syracuse Consolidated Street R'y Co., July 1, 1890.

c Leased to Troy and Lansingburg R. R. Co.

d Operated by animal power up to and including June 22, 1890; afterward by electricity.

e Bought by Findlay Street R'y Co., June 1, 1890.

TABLE 1.—LIST OF STREET RAILWAY COMPANIES REPORTING, SHOWING LENGTH OF LINE, ETC.—Continued.

No.	STATES AND CITIES.	Name of company.	Date of corporate charter.	Number of stockholders.	LENGTH OF LINE. (Miles.)		Kind of motive power.	PERIOD OF TIME COVERED BY REPORT.	
					Owued.	Operated.		From—	To—
OREGON.									
534	Albany	Albany Street R'y Co.	Feb. 19, 1889	11	0.80	0.80	Animal	Jan. 1, 1890	July 1, 1890
535	Astoria	Astoria Street R'y Co	Nov. 12, 1887	8	3.00	3.00	Animal	July 1, 1889	July 1, 1890
536	Portland	Metropolitan R'y Co	Jan. 23, 1889	12	4.25	4.25	Electric	Jan. 1, 1890	July 1, 1890
537	Portland	Multnomah Street R'y Co.	July 3, 1882	5	1.71	1.71	Animal (a)	July 1, 1889	July 1, 1890
538	Portland	Mount Tabor Street R. R. Co	Jan. 2, 1889	3	2.65	2.65	Steam	July 1, 1889	July 1, 1890
539	Portland	Portland and Vancouver R'y Co	Apr. 27, 1885	9	6.60	6.60	Steam	July 1, 1889	July 1, 1890
540	Portland	Portland Cable R'y Co	June 24, 1887	100	5.30	5.30	Cable	Jan. 1, 1890	Jan. 1, 1891
541	Portland	Portland Street R'y Co	Sept. 15, 1871	8	1.82	1.82	Animal	July 1, 1889	July 1, 1890
542	Portland	Transcontinental Street R'y Co	Nov. 23, 1882	14	7.56	7.56	Animal	July 1, 1889	July 1, 1890
543	Salem	Capital City R'y Co.	Sept. 3, 1889	18	2.00	2.00	Electric	July 1, 1890	Aug. 1, 1890
PENNSYLVANIA.									
544	Allegheny	Troy Hill Inclined Plane and Bridge Co	June 6, 1884	23	0.08	0.08	Cable	July 1, 1889	July 1, 1890
545	Altoona	City Passenger R'y Co.	Mar. 10, 1882	42	3.33	3.33	Animal	July 1, 1889	July 1, 1890
546	Beaver Falls.	Beaver Valley Street R'y Co	Sept. 22, 1884	21	3.10	3.10	Animal	July 1, 1889	July 1, 1890
547	Bradford	Bradford and Kendall Street R'y Co	Mar. 15, 1879	7	1.50	1.50	Animal	July 1, 1889	July 1, 1890
548	Chester	Chester Street R'y Co	July 13, 1882	7	7.25	7.25	Animal	July 1, 1889	July 1, 1890
549	Easton	Easton, South Easton and West End Passenger R'y Co.	Mar. 27, 1866	9	4.00	4.00	Animal	July 1, 1889	July 1, 1890
550	Easton	Pennsylvania Motor Co.	Nov. 15, 1888	10		2.38	Electric	July 1, 1889	July 1, 1890
551	Erie	Erie Electric Motor Co.	Oct. 8, 1888	10	13.12	13.12	Electric	July 1, 1889	July 1, 1890
552	Harrisburg	East Harrisburg Passenger R'y Co	July 21, 1886	104	5.00	5.00	Electric	July 1, 1889	July 1, 1890
553	Harrisburg	Harrisburg City Passenger R'y Co	May 1, 1861	50	5.33	5.33	Animal	July 1, 1889	July 1, 1890
554	Lancaster	Lancaster and Millersville R. R. Co	July —, 1890	43		5.50	Animal	July 1, 1889	July 1, 1890
555	Lancaster	Lancaster City Street R'y Co	Nov. 28, 1883	9	4.00	5.50	Animal	July 1, 1889	July 1, 1890
556	Lancaster	West End Street R'y Co	Apr. 3, 1888	22	1.03	1.78	Animal	July 1, 1889	July 1, 1890
557	McKeesport	McKeesport Passenger R'y Co.	Feb. —, 1882	6	1.78	1.78	Animal	July 1, 1889	July 1, 1890
558	Norristown	Citizens' Passenger R'y Co	Apr. —, 1887	180	3.00	3.00	Animal	July 1, 1889	July 1, 1890
559	Norristown	Norristown Passenger R'y Co	— —, 1884	122	4.00	4.00	Animal	July 1, 1889	July 1, 1890
560	Philadelphia	Catharine and Bainbridge Street R. R. Co				(b)	Animal	Mar. 1, 1890	July 1, 1890
561	Philadelphia	Citizens' Passenger R'y Co	Mar. 25, 1858	167	10.50	10.50	Animal	July 1, 1889	July 1, 1890
562	Philadelphia	Continental Passenger R'y Co	Sept. 8, 1873	270		(b)	Animal	July 1, 1889	July 1, 1890
563	Philadelphia	Empire Passenger R'y Co	Feb. 10, 1869	30		(b)	Animal	July 1, 1889	July 1, 1890
564	Philadelphia	Frankford and Southwark Passenger R. R. Co	Apr. 4, 1854	251	18.00	18.00	A. and S.	July 1, 1889	July 1, 1890
565	Philadelphia	Hestonville, Mantua and Fairmount Passenger R. R. Co.	Apr. 16, 1857	198	8.75	10.00	Animal	July 1, 1889	July 1, 1890
566	Philadelphia	Lehigh Avenue R'y Co.	Dec. 30, 1873	53	3.00	3.00	Electric	May 1, 1890	July 1, 1890
567	Philadelphia	Lombard and South Streets Passenger R'y Co	May 16, 1861	114	19.50	19.50	Animal	July 1, 1889	July 1, 1890
568	Philadelphia	Manayunk and Roxboro Inclined Plane and R'y Co	Apr. 9, 1873	184	5.42	5.42	Animal	July 1, 1889	July 1, 1890
569	Philadelphia	People's Passenger R'y Co.	Apr. 15, 1873	119	6.85	32.70	Animal	July 1, 1889	July 1, 1890
570	Philadelphia	Philadelphia and Grays Ferry Passenger R'y Co.	Apr. 9, 1858	180	7.70	10.38	Animal	Jan. 1, 1890	Jan. 1, 1891
571	Philadelphia	Philadelphia City Passenger R'y Co	Apr. 9, 1859	252		(b)	Animal	July 1, 1889	July 1, 1890
572	Philadelphia	Philadelphia Traction Co.	Aug. 22, 1883	248		104.04	A. and C.	July 1, 1889	July 1, 1890
573	Philadelphia	Ridge Avenue Passenger R'y Co.	Apr. 15, 1858	150	15.00	15.00	Animal	July 1, 1889	July 1, 1890
574	Philadelphia	Second and Third Streets Passenger R'y Co	Apr. 10, 1858	404	37.00	37.00	Animal	Jan. 1, 1890	Jan. 1, 1891
575	Philadelphia	Seventeenth and Nineteenth Streets Passenger R'y Co.	Apr. 12, 1852	1		(b)	Animal	July 1, 1889	July 1, 1890
576	Philadelphia	Thirteenth and Fifteenth Streets Passenger R'y Co.	Apr. 8, 1859	250	13.25	14.00	Animal	July 1, 1889	July 1, 1890
577	Philadelphia	Union Passenger R'y Co.	Apr. 8, 1864	235		(b)	Cable	July 1, 1889	July 1, 1890
578	Philadelphia	West Philadelphia Passenger R'y Co	May 14, 1857	171		(b)	Cable	July 1, 1889	July 1, 1890
579	Pittsburg	Central Traction Co	Nov. 28, 1888	289	3.02	3.02	Cable (c)	Jan. 1, 1890	Jan. 1, 1891
580	Pittsburg	Citizens' Traction Co.	July 6, 1887	165	12.50	12.50	C. and A.	July 1, 1889	July 1, 1890
581	Pittsburg	Duquesne Inclined Plane Co.	June 27, 1876	33	0.15	0.15	Cable	July 1, 1889	July 1, 1890
582	Pittsburg	Federal Street and Pleasant Valley Passenger R'y Co.	July 12, 1889	218	11.71	11.71	Electric	Jan. 1, 1890	July 1, 1890
583	Pittsburg	Fort Pitt Inclined Plane R'y Co	June 6, 1881	12	0.07	0.07	Cable	July 1, 1889	July 1, 1890
584	Pittsburg	Monongahela Inclined Plane Co	Apr. 12, 1867	64	0.24	0.24	Cable	July 1, 1889	July 1, 1890
585	Pittsburg	Mount Oliver Incline R'y Co.	Mar. —, 1871	19	1.59	1.59	A. and C.	July 1, 1889	July 1, 1890
586	Pittsburg	Penn Inclined Plane Co.			0.16	0.16	Cable	July 1, 1889	July 1, 1890
587	Pittsburg	Pittsburg, Allegheny and Manchester Passenger R'y Co.	Apr. 12, 1859	42	5.16	5.16	Animal	July 1, 1889	July 1, 1890
588	Pittsburg	Pittsburg and Birmingham Passenger R. R. Co.	July 5, 1859	6	3.70	d3.70	Animal	July 1, 1889	Nov. 19, 1889
589	Pittsburg	Pittsburg and Birmingham Traction Co	— —, 1889	5		(e)	Animal	Nov. 19, 1889	July 1, 1890
590	Pittsburg	Pittsburg and West End Passenger R'y Co.	Mar. 26, 1879	5	5.25	5.25	Animal	July 1, 1889	July 1, 1890
591	Pittsburg	Pittsburg, Knoxville and Saint Clair Street R'y Co.	Mar. 2, 1886	90	2.50	2.50	Electric	Jan. 1, 1890	Jan. 1, 1891
592	Pittsburg	Pittsburg Traction Co.	Apr. 30, 1887	122	5.50	5.50	Cable	July 1, 1889	July 1, 1890
593	Pittsburg	Pittsburg Union Passenger R'y Co	Nov. 2, 1878	23	4.06	4.06	Animal	July 1, 1889	July 1, 1890
594	Pittsburg	Saint Clair Inclined Plane Co.	Sept. 9, 1885	5	0.39	0.39	Cable	July 1, 1889	July 1, 1890
595	Pittsburg	Second Avenue Passenger R'y Co	May 15, 1889	27	4.50	5.50	Electric	Mar. 4, 1890	July 1, 1890
596	Pittsburg	South Side Passenger R'y Co	Apr. 6, 1870	6	d3.00	3.00	Animal	— —, 1889	Nov. 19, 1889
597	Pittsburg	Suburban Rapid Transit Street R'y Co	Sept. 28, 1886	19	2.25	2.25	Electric	July 1, 1889	July 1, 1890
598	Pittston	Pittston Street Car Co.	— —, 1873	6	1.75	1.75	Animal	July 1, 1889	July 1, 1890
599	Reading	East Reading R. R. Co	Aug. 27, 1888	90	3.00	3.00	Electric	July 1, 1889	July 1, 1890
600	Reading	Mount Penn Gravity R. R. Co.	Apr. 26, 1889	134	7.72	7.72	Steam	July 1, 1889	July 1, 1890
601	Reading	Reading City Passenger R'y Co.	Dec. 18, 1873	128	16.50	16.50	Animal	July 1, 1889	July 1, 1890
602	Scranton	People's Street R'y Co	Mar. 23, 1865	58	15.00	15.00	Electric	July 1, 1889	July 1, 1890
603	Stroudsburg	Stroudsburg Passenger R'y Co	— —, 1860	11	1.38	1.38	Animal	July 1, 1889	July 1, 1890
604	Sunbury	Sunbury and Northumberland Street R'y Co	Jan. 29, 1885	6	3.30	3.30	Electric	— —, 1889	July 1, 1890
605	Wilkesbarre	Coalville Passenger R. R. Co.	Mar. 24, 1868	27	2.50	2.50	Animal	July 1, 1889	July 1, 1890
606	Wilkesbarre	Wilkesbarre and Kingston Passenger R'y Co.	Dec. 10, 1859	17	4.00	4.00	Animal	July 1, 1889	July 1, 1890
607	Wilkesbarre	Wilkesbarre and Suburban Street R'y Co.	July 1, 1887	62	6.00	6.00	Electric	July 1, 1889	July 1, 1890
608	Wilkesbarre	Wilkesbarre and West Side R'y Co.	May 26, 1887	33	3.33	3.33	Electric	Dec. 9, 1889	July 1, 1890
609	Williamsport	Williamsport Passenger R'y Co	Apr. 15, 1863	9	4.92	4.92	Animal	July 1, 1889	July 1, 1890
610	York	York Street R'y Co	Feb. 8, 1886	123	5.00	5.00	Animal	July 1, 1889	July 1, 1890

a Road being changed to electricity.

b Leased to Philadelphia Traction Co.

c Statistics for this road cover 2 months as operated by animal power and 10 months by cable.

d Leased to Pittsburg and Birmingham Traction Co.

e Operates Pittsburg and Birmingham Passenger R. R. and South Side Passenger R'y under lease.

TABLE 1.—LIST OF STREET RAILWAY COMPANIES REPORTING, SHOWING LENGTH OF LINE, ETC.—Continued.

No.	STATES AND CITIES.	Name of company.	Date of corporate charter.	Number of stockholders.	LENGTH OF LINE. (Miles.)		Kind of motive power.	PERIOD OF TIME COVERED BY REPORT.	
					Owued.	Operated.		From—	To—
RHODE ISLAND.									
611	Newport.....	Newport Street R'y Co.....	Apr. 24, 1885	71	3.89	3.89	Electric...	Jan. 1, 1890	Jan. 1, 1891
612	Pawtucket.....	Pawtucket Street R'y Co.....	May 29, 1885	68	7.10	7.10	Animal...	July 1, 1889	July 1, 1890
613	Providence.....	Providence Cable Tramway Co.....	—, 1884	148	3.00	5.50	A. and C.....	Jan. 1, 1890	July 1, 1890
614	Providence.....	Union R. R. Co.....	Jan. —, 1865	367	41.95	41.95	Animal...	July 1, 1889	July 1, 1890
615	Woonsocket.....	Woonsocket Street R'y Co.....	May 28, 1886	9	5.40	5.40	Animal...	July 1, 1889	July 1, 1890
SOUTH CAROLINA.									
616	Charleston.....	Charleston City R'y Co.....	Jan. 28, 1861	102	13.00	13.00	Animal...	July 1, 1889	July 1, 1890
617	Charleston.....	Enterprise R. R. Co.....	Mar. 1, 1870	94	5.69	5.69	Animal...	July 1, 1889	July 1, 1890
618	Charleston.....	Middle Street Sullivan's Island R'y Co.....	Mar. 9, 1875	22	2.00	2.00	Animal...	Apr. 1, 1889	Apr. 1, 1890
619	Greenville.....	Street R'y Co. of the City of Greenville.....	—, 1876	1	2.25	2.25	Animal...	July 1, 1889	July 1, 1890
620	Orangeburg.....	Orangeburg City Street R'y Co.....	Apr. 26, 1889	44	1.25	1.25	Animal...	July 1, 1889	July 1, 1890
SOUTH DAKOTA.									
621	Deadwood.....	Deadwood Street R'y Co.....	Aug. —, 1888	5	1.75	1.75	Animal...	July 1, 1889	July 1, 1890
622	Pierre.....	Pierre City R'y Co.....	Apr. 13, 1885	5	4.10	4.10	Animal...	Jan. 1, 1890	Jan. 1, 1891
623	Rapid city.....	Rapid City Street R. R. Co.....	Jan. 15, 1886	9	1.50	1.50	Animal...	July 1, 1889	July 1, 1890
624	Sioux Falls.....	Sioux Falls City Street R'y Co.....	Mar. 22, 1887	3	8.00	8.00	Animal...	July 1, 1889	July 1, 1890
625	Sioux Falls.....	South Dakota Rapid Transit R'y Co.....	May 17, 1889	10	7.37	7.37	Electric...	—	July 1, 1890
626	Watertown.....	Watertown and Lake Kampeska R'y Co.....	June 7, 1888	5	5.65	5.65	Steam.....	June 1, 1890	Oct. 1, 1890
627	Yankton.....	Yankton Street R'y Co.....	Apr. 23, 1889	2	2.00	2.00	Animal...	Apr. 7, 1890	July 1, 1890
TENNESSEE.									
628	Bristol.....	Bristol Street Car Co.....	—, 1886	6	1.50	1.50	Animal...	—	—
629	Chattanooga.....	Chattanooga Electric Street R. R. Co.....	—, 1888	9	11.11	11.11	Electric...	Jan. 1, 1890	Jan. 1, 1891
630	Chattanooga.....	City Street R. R. Co.....	—, 1877	7	7.24	7.24	Animal...	Jan. 1, 1890	Jan. 1, 1891
631	Clarksville.....	Clarksville Street R'y Co.....	Aug. —, 1883	6	1.75	1.75	Animal...	July 1, 1889	July 1, 1890
632	Cleveland.....	Cleveland Street R'y Co.....	Nov. 17, 1886	34	1.50	1.50	Animal...	July 1, 1889	July 1, 1890
633	Columbia.....	Columbia Street R'y Co.....	Sept. 1, 1886	5	2.50	2.50	Animal...	July 1, 1889	July 1, 1890
634	Jackson.....	Jackson and Suburban Street R. R.....	May 21, 1887	6	5.50	5.50	Animal...	July 1, 1889	July 1, 1890
635	Knoxville.....	Fountain Head R. R. Co.....	May —, 1889	13	5.75	5.75	Steam.....	—	July 1, 1890
636	Knoxville.....	West End Street R. R. Co.....	Aug. 19, 1887	36	1.75	1.75	Animal...	July 1, 1889	July 1, 1890
637	Memphis.....	East End Street R'y Co.....	—	—	5.00	5.00	Steam.....	—	—
638	Murfreesboro.....	Murfreesboro Street Car R'y Co.....	Nov. —, 1889	5	3.00	3.00	Animal...	—	—
639	Nashville.....	Nashville and West Nashville R. R. Co.....	Dec. —, 1888	43	6.00	6.00	Steam.....	Jan. 1, 1890	July 1, 1890
640	Nashville.....	Overland R'y Co.....	Mar. 3, 1887	—	9.33	9.33	Steam.....	July 1, 1889	July 1, 1890
641	Nashville.....	United Electric R'y.....	Jan. 28, 1890	128	29.27	29.27	Electric...	July 1, 1889	July 1, 1890
TEXAS.									
642	Corsicana.....	Corsicana Street R'y Co.....	—, 1887	25	4.25	4.25	Animal...	July 1, 1889	July 1, 1890
643	Denison.....	Denison Street R'y.....	Jan. 3, 1884	(a)	4.00	4.00	Animal...	July 1, 1889	July 1, 1890
644	El Paso.....	El Paso Street R'y Co.....	May 2, 1882	24	2.75	2.75	Animal...	July 1, 1889	July 1, 1890
645	El Paso.....	Santa Fe Street R'y Co.....	Dec. 29, 1888	12	1.00	1.00	Animal...	July 1, 1889	July 1, 1890
646	Fort Worth.....	Fort Worth Land and Street R'y Co.....	—	—	10.50	10.50	Electric...	May 15, 1890	July 1, 1890
647	Fort Worth.....	North Side R. R. Co.....	—	2	5.47	12.50	Electric...	May 15, 1890	July 1, 1890
648	Gainesville.....	Gainesville Street R'y Co.....	June 14, 1883	9	3.50	3.50	Animal...	July 1, 1889	July 1, 1890
649	Galveston.....	Galveston City R. R. Co.....	May 2, 1871	97	29.89	29.89	Animal...	Jan. 1, 1890	July 1, 1890
650	Houston.....	Bayou City Street R'y Co.....	Mar. 22, 1889	3	610.00	610.00	Animal...	July 1, 1889	July 1, 1890
651	Houston.....	Houston City Street R'y Co.....	Aug. 6, 1870	30	15.35	15.35	Animal...	Jan. 1, 1890	Jan. 1, 1891
652	Laredo.....	Laredo Improvement Co. (St. R'y Div.).....	Aug. 18, 1888	25	4.25	4.25	Electric...	Dec. 6, 1889	Dec. 6, 1890
653	Longview.....	Longview and Junction R'y Co.....	June 11, 1883	22	0.75	0.75	Animal...	July 1, 1889	July 1, 1890
654	Marshall.....	Marshall Street Railway and Transportation Co.....	July 10, 1882	7	0.75	0.75	Animal...	July 1, 1889	July 1, 1890
655	Paris.....	Paris R'y Co.....	—, 1878	3	4.00	4.00	Animal...	July 1, 1889	July 1, 1890
656	San Antonio.....	Cross Town R. R. Co.....	Feb. 15, 1888	9	1.13	1.13	Animal...	July 1, 1889	July 1, 1890
657	Sherman.....	College Park Electric Belt Line.....	July 29, 1889	65	4.50	4.50	Electric...	June 1, 1890	Sept. 1, 1890
658	Sherman.....	Sherman City R. R. Co.....	Mar. 27, 1877	1	3.75	3.75	Animal...	—	—
659	Victoria.....	Victoria Street Railway and Improvement Co.....	June —, 1888	—	2.25	2.25	Animal...	—	—
660	Waco.....	Waco Street R'y Co.....	Feb. 17, 1877	10	9.00	9.00	Animal...	July 1, 1889	July 1, 1890
661	Waxahachie.....	Waxahachie Street R'y Co.....	Sept. —, 1887	12	2.00	2.00	Animal...	July 1, 1889	July 1, 1890
662	Weatherford.....	Weatherford City and Suburban R. R. Co.....	Aug. 22, 1889	6	2.00	2.00	Animal...	June 1, 1890	July 1, 1890
UTAH.									
663	Salt Lake city.....	Salt Lake City R. R. Co.....	Jan. 19, 1872	20	20.00	20.00	Electric...	Aug. 18, 1889	May 1, 1890
VERMONT.									
664	Burlington.....	Winooski and Burlington Horse R. R. Co.....	Oct. 31, 1872	16	6.00	6.00	Animal...	July 1, 1889	July 1, 1890
665	Rutland.....	Rutland Street R'y Co.....	—, 1885	50	7.33	7.33	Animal...	July 1, 1889	July 1, 1890
VIRGINIA.									
666	Charlottesville.....	Charlottesville and University Street R'y Co.....	Mar. —, 1887	6	1.50	1.50	Animal...	July 1, 1889	July 1, 1890
667	Danville.....	Danville Street Car Co.....	June 23, 1886	22	2.00	2.00	Electric...	July 1, 1889	July 1, 1890
668	Lynchburg.....	Lynchburg Street R'y Co.....	Mar. 3, 1882	88	3.25	3.25	Animal...	July 1, 1889	July 1, 1890
669	Norfolk.....	Berkley Street R'y Co.....	Feb. 3, 1888	6	1.25	1.25	Animal...	May 15, 1890	July 1, 1890
670	Norfolk.....	Norfolk City R. R. Co.....	Jan. 4, 1866	17	4.25	4.25	Animal...	July 1, 1889	July 1, 1890
671	Norfolk.....	Suburban and City Railway and Improvement Co.....	May 2, 1887	10	2.85	2.85	Animal...	July 1, 1889	July 1, 1890
672	Portsmouth.....	Portsmouth Street R'y Co.....	May 6, 1887	15	4.17	4.17	Animal...	July 1, 1889	July 1, 1890
673	Richmond.....	Richmond and Manchester R'y Co.....	Apr. 21, 1882	6	—	2.50	Animal...	July 1, 1889	July 1, 1890
674	Richmond.....	Richmond City R'y and Electric Co.....	Feb. —, 1890	—	19.00	19.00	A. and E.....	—	—
675	Roanoke.....	Roanoke Street R'y Co.....	May 2, 1887	16	15.00	15.00	A. and S.....	July 1, 1889	July 1, 1890
WASHINGTON.									
676	Olympia.....	Olympia R'y Co.....	Oct. 30, 1889	10	0.75	0.75	Animal...	Jan. 1, 1890	Jan. 1, 1891
677	Seattle.....	Front Street Cable R'y Co.....	Oct. 24, 1888	13	1.59	1.59	Cable.....	July 1, 1889	July 1, 1890
678	Seattle.....	Lake Washington Cable R. R. Co.....	Aug. 29, 1887	10	4.85	4.85	Cable.....	Sept. 1, 1889	July 1, 1890
679	Seattle.....	Madison Street Cable R'y Co.....	Sept. 17, 1889	12	c3.50	c1.75	Cable.....	Apr. 6, 1890	July 1, 1890
680	Seattle.....	Seattle Electric R'y and Power Co.....	Oct. 8, 1888	24	11.60	11.60	Electric...	July 1, 1889	July 1, 1890

a Owned by Denison Land and Improvement Co.
b Bought by Houston City Street R'y Co.

c 3.50 miles owned; only 1.75 miles operated at date of report.

STREET RAILWAYS.

35

TABLE 1.—LIST OF STREET RAILWAY COMPANIES REPORTING, SHOWING LENGTH OF LINE, ETC.—Continued.

No.	STATES AND CITIES.	Name of company.	Date of corporate charter.	Number of stockholders.	LENGTH OF LINE. (Miles.)		Kind of motive power.	PERIOD OF TIME COVERED BY REPORT.	
					Owued.	Operated.		From—	To—
WASHINGTON—con.									
681	Spokane	Ross Park Street R'y Co	Apr. 17, 1888	12	3.79	3.79	Electric...	Nov. 17, 1889	July 1, 1890
682	Spokane	Spokane and Montrose Motor R. R. Co	Mar. 19, 1888	3	3.50	3.50	Steam	July 1, 1889	July 1, 1890
683	Spokane	Spokane Cable R'y Co	June 1, 1888	11	3.00	3.00	Cable	Jan. 1, 1890	July 1, 1890
684	Spokane	Spokane Street R'y Co	Dec. 13, 1886	10	6.00	6.00	Animal	Jan. 1, 1890	July 1, 1890
685	Wallawalla	Wallawalla Street Railway and Investment Co	Feb. 18, 1889	11	3.50	3.50	Animal	July 1, 1889	July 1, 1890
WEST VIRGINIA.									
686	Huntington	Huntington Electric Light and Street R'y Co	May 15, 1888	9	3.25	3.25	Electric...	July 1, 1889	July 1, 1890
687	Parkersburg	Park City Street R'y	Jan. 5, 1888	23	4.00	4.00	Animal	Jan. 1, 1889	Jan. 1, 1890
688	Wheeling	Citizens' R'y Co	Jan. 30, 1863	119	a1.20	a1.20	Animal	July 1, 1889	July 1, 1890
689	Wheeling	Wheeling and Elm Grove R. R.	Apr. 3, 1873	49	8.00	8.00	Steam	July 1, 1889	July 1, 1890
690	Wheeling	Wheeling R'y Co	July 25, 1887	98	b10.00	b10.00	Electric...	July 1, 1889	July 1, 1890
WISCONSIN.									
691	Appleton	Appleton Electric Street R'y Co	Jan. 1, 1886	8	3.50	3.50	Electric...	July 1, 1889	July 1, 1890
692	Eau Claire	Eau Claire Street Railway, Light and Power Co ..	Oct. 9, 1890	6	4.50	4.50	Electric...	.....	Oct. 1, 1890
693	Fond du Lac	Fond du Lac Street R'y Co	June 20, 1889	6	3.68	3.68	Animal	July 1, 1889	July 1, 1890
694	Lacrosse	Lacrosse and Onalaska Street R'y Co	Mar. 15, 1889	5	2.88	2.88	Animal	June 1, 1890	July 1, 1890
695	Lacrosse	Lacrosse City R'y Co	June 1, 1882	12	6.51	6.51	Animal	July 1, 1889	July 1, 1890
696	Madison	Madison City R'y Co .....	.....	2	7.25	7.25	Animal	July 1, 1889	July 1, 1890
697	Milwaukee	Cream City R'y Co .....	.....	.....	14.56	14.56	Animal	Oct. 1, 1890	Jan. 1, 1891
698	Milwaukee	Milwaukee and Whitefish Bay R'y Co	May 24, 1886	39	5.33	5.33	Steam	May 1, 1889	Dec. 1, 1889
699	Milwaukee	Milwaukee City R. R. Co	Dec. 1, 1888	13	17.86	17.86	Animal	July 1, 1889	July 1, 1890
700	Milwaukee	Milwaukee Electric R'y Co	Dec. 18, 1889	5	6.00	6.00	Electric...	.....	July 1, 1890
701	Milwaukee	West Side R. R. Co	June 5, 1889	5	9.00	9.00	Electric...	.....	July 1, 1890
702	Oshkosh	Oshkosh Street R. R. Co	June 15, 1882	10	8.00	8.00	Animal	July 1, 1889	July 1, 1890
703	Racine	Belle City Street R'y Co	May 30, 1883	5	4.50	4.50	Animal	July 1, 1889	July 1, 1890
704	Sheboygan	Sheboygan City R'y	Mar. —, 1890	3	4.75	4.75	Animal .....	.....	July 1, 1890
705	Superior	Douglas County Street R'y Co	July —, 1889	5	5.43	5.43	Electric...	June 1, 1890	Oct. 1, 1890
WYOMING.									
706	Cheyenne	Cheyenne Street R. R. Co	Apr. 19, 1887	14	4.75	4.75	Animal	Jan. 1, 1890	July 1, 1890

a The statistics for this road in all tables except 1 and 2 are reported by the Wheeling R'y Co.

b Report for this road covers statistics of Citizens' R'y Co. in all tables except 1 and 2.

STATISTICS OF TRANSPORTATION.

TABLE 2.—DESCRIPTION OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR.

RAILWAYS OPERATED BY ANIMAL POWER.

No.	STATES AND CITIES.	Name of road.	LENGTH IN MILES—		Total weight of rail, estimated in tons of 2,000 pounds.	Number of horses and mules.	NUMBER OF PASSENGER CARS.	
			Of line.	Of all tracks, including sidings.			Total.	Average operated at once.
ALABAMA.								
1	Anniston	Anniston City Street R'y Co.	6.50	6.50	400.40	40	8	6
3	Birmingham	Birmingham Railway and Electric Co.	12.50	15.00	496.32	185	42	28
7	Decatur	Decatur Street R'y Co.	4.00	5.00	176.00	32	5	4
9	Mobile	Mobile Street R'y Co.	20.25	24.00	1,478.40	229	63	31
13	Tuscaloosa	Tuscaloosa and Castle Hill Real Estate and Manufacturing Co.	4.00	4.50	174.24	36	8	6
ARKANSAS.								
15	Fort Smith	Fort Smith Street R'y Co.	8.44	8.74	577.63	65	22	14
16	Helena	Citizens' Street R'y Co.	2.00	2.25	96.80	12	4	4
17	Hot Springs	Hot Springs Street R. R. Co.	7.90	16.40	756.80	90	17	11
18	Little Rock	Capital Street R'y Co.	12.25	14.50	941.60	300	35	30
20	Pine Bluff	Citizens' Street R'y Co.	6.28	6.28	310.29	83	16	12
21	Searcy	Searcy and West Point R. R. Co.	3.19	3.52	99.13	1	2	1
22	Texarkana	Texarkana Street R'y Co.	4.00	4.50	237.60	40	8	6
CALIFORNIA.								
23	Anaheim	Anaheim Street Car Co.	1.75	1.75	84.48	2	2	1
24	Fresno	Fresno R. R. Co.	1.50	3.00	105.60	7	1	1
25	Fresno	Fresno Street R. R. Co.	1.50	2.00	88.00	6	3	2
27	Los Angeles	Elysian Park Street R'y Co.	3.50	3.50	123.20	8	3	2
29	Los Angeles	Main Street and Agricultural Park R. R. Co.	6.48	12.96	364.95	160	33	20
30	Los Angeles	Mateo and Santa Fe Avenue R'y Co.	3.00	3.00	84.48	4	1	1
31	Los Angeles	Pacific R'y Co.	11.37	23.89	1,217.22	223	24	18
35	Marysville	Marysville and Yuba City Street R. R. Co.	2.11	2.17	61.11	14	5	3
36	Oakland	Alameda, Oakland and Piedmont R. R. Co.	4.00	4.00	119.68	23	13	4
37	Oakland	Oakland, Brooklyn and Fruitvale R. R. Co.	1.88	1.94	112.68	54	6	5
38	Oakland	Oakland R. R. Co.	4.00	4.24	288.15	75	15	11
39	Ontario	Ontario and San Antonio Heights R. R. Co.	6.25	6.25	330.00	4	2	2
40	Pasadena	Alhambra and Pasadena Street R'y Co.	4.50	4.50	126.72	8	3	2
41	Pasadena	City R'y Co.	5.25	5.25	187.44	18	5	3
42	Pasadena	Highland R. R. Co.	5.00	5.00	61.60	4	3	1
43	Pasadena	Pasadena Street R. R. Co.	3.50	3.63	102.22	16	5	3
44	Pasadena	West Pasadena R'y Co.	3.25	3.25	123.20	4	2	1
45	Pomona	Orange Grove Street R. R. Co.	3.75	4.00	112.64	9	3	1
47	Pomona	San Antonio and Hoyt Avenue R. R. Co.	2.04	2.11	59.42	5	3	1
48	Redlands	Redlands Street R'y Co.	3.13	3.13	95.04	6	1	1
49	Riverside	Hall's Addition Street R'y Co.	1.35	1.35	38.02	4	1	1
50	Riverside	Riverside and Arlington R'y Co.	7.22	7.22	254.14	16	5	3
51	Riverside	Riverside R'y Co.	3.00	3.00	84.48	5	3	2
52	Sacramento	Sacramento City R'y Co.	6.50	9.00	475.20	100	30	16
53	San Bernardino	City Street R. R. Co.	2.25	2.33	73.81	17	8	3
56	San Bernardino	Southern California Motor Road Co.	3.00	3.00	105.60	6	4	2
57	San Diego	San Diego Street Car Co.	8.50	10.00	404.80	135	32	20
59	San Francisco	Central R. R. Co.	5.88	10.40	868.34	246	57	26
60	San Francisco	City R. R. Co.	4.84	9.69	761.72	276	67	34
63	San Francisco	Market Street Cable R'y Co.	2.83	3.83	218.33	93	44	8
64	San Francisco	North Beach and Mission R. R. Co.	8.00	16.00	1,267.20	400	60	48
66	San Francisco	Potrero and Bay View R. R. Co.	1.57	3.14	193.42	58	10	6
67	San Francisco	Presidio and Ferris R. R. Co.	2.00	2.00	84.48	28	4	4
69	San Jose	First Street and Willow Street R. R.	3.75	3.75	198.00	35	7	6
70	San Jose	North Side Horse R. R. Co.	2.25	2.25	63.36	15	3	3
71	San Jose	San Jose and Santa Clara R'y Co.	2.88	3.75	132.00	30	7	5
72	San Luis Obispo	San Luis Street R'y Co.	1.50	2.50	70.40	10	5	2
73	Santa Ana	Santa Ana, Orange and Tustin Street R'y Co.	8.00	10.00	376.64	17	6	3
74	Santa Barbara	Santa Barbara and Citizens' Street R'y Co.	6.00	6.00	264.00	35	6	6
75	Santa Cruz	Pacific Avenue R. R. Co.	2.08	2.08	73.22	16	9	4
76	Santa Rosa	South Side Street R'y Co.	1.67	1.67	102.87	3	1	1
77	Stockton	Stockton Street R. R. Co.	4.40	7.00	352.00	40	22	7
78	Woodland	Woodland Street R. R. Co.	1.00	1.00	35.20	3	3	1
COLORADO.								
82	Denver	Denver City R'y Co.	29.25	45.00	1,584.00	500	90	73
85	Pueblo	Pueblo City R'y Co.	12.00	13.50	498.96	89	21	15
86	Trinidad	Trinidad Street R'y Co.	2.50	3.50	154.00	26	6	4
CONNECTICUT.								
88	Bridgeport	Bridgeport Horse R. R. Co.	6.50	6.50	512.16	175	27	25
89	Danbury	Danbury and Bethel Horse R'y Co.	4.17	5.00	237.60	109	20	11
90	Hartford	Hartford and Wethersfield Horse R'y Co.	15.00	23.00	1,819.40	447	83	35
91	Middletown	Middletown Horse R. R. Co.	3.75	3.75	237.60	34	8	6
92	New Britain	New Britain Tramway Co.	4.50	4.50	277.20	42	8	4
93	New Haven	Fair Haven and Westville R. R. Co.	7.00	10.00	728.64	250	44	23
94	New Haven	New Haven and Centerville Horse R. R. Co.	2.50	2.75	203.28	48	9	6
95	New Haven	New Haven and West Haven Horse R. R. Co.	7.00	8.50	837.76	155	33	22
96	New Haven	State Street Horse R. R. Co.	4.35	4.83	379.56	76	13	7
98	Norwalk	Norwalk Horse R'y Co.	3.50	4.00	295.68	38	10	5
99	Norwich	Norwich Street R'y Co.	8.50	8.79	403.26	57	17	7
100	Stamford	Stamford Street R. R. Co.	3.50	4.00	176.00	32	8	6
101	Waterbury	Waterbury Horse R. R. Co.	5.75	6.25	440.00	96	20	11
102	Westport	Westport and Saugatuck Horse R. R. Co.	1.75	1.75	123.20	7	4	2

STREET RAILWAYS.

37

TABLE 2.—DESCRIPTION OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH IN MILES—		Total weight of rail, estimated in tons of 2,000 pounds.	Number of horses and mules.	NUMBER OF PASSENGER CARS.	
			Of line.	Of all tracks, including sidings.			Total.	Average operated at once.
DELAWARE.								
103	Wilmington	Front and Union Street R'y Co	1.33	1.39	97.86	24	5	4
104	Wilmington	Wilmington City R'y Co	4.79	4.94	376.09	145	23	17
DIST. OF COLUMBIA.								
105	Washington	Anacostia and Potomac River R. R. Co	3.00	3.00	171.40	42	12	12
106	Washington	Brightwood R'y Co	2.00	2.13	140.80	(a)	(a)	(a)
107	Washington	Capitol, North O Street and South Washington R'y Co	8.00	14.00	943.36	206	52	44
108	Washington	Columbia R'y Co	2.80	6.00	478.72	98	32	16
111	Washington	Metropolitan R. R. Co	69.72	619.44	62,052.86	608	6125	667
112	Washington	Washington and Georgetown R. R. Co	7.00	14.00	1,971.20	799	115	66
FLORIDA.								
113	Fort Meade	Fort Meade Street R'y Co	2.25	2.25	99.00	2	1	1
114	Jacksonville	Jacksonville Street R. R. Co	8.50	10.25	468.60	138	31	22
115	Jacksonville	Main Street R'y Co	1.40	1.40	61.60	14	5	2
116	Orlando	Orlando Street R'y Co	1.75	1.75	92.40	4	2	1
117	Palatka	Palatka and Heights Street R'y Co	2.00	2.00	105.60	2	2	1
118	Pensacola	Pensacola Street Car Co	2.74	2.98	124.08	37	10	5
GEORGIA.								
120	Athens	Athens R'y Co	3.00	3.50	98.56	36	4	4
122	Atlanta	Atlanta Street R. R. Co	26.00	27.50	1,683.44	290	51	33
125	Augusta	Augusta and Summerville R. R. Co	7.00	7.00	369.60	90	23	10
127	Brunswick	Brunswick Street R. R. Co	7.50	8.00	471.68	60	10	9
128	Columbus	Columbus R. R. Co	5.00	5.00	220.00	65	19	12
129	Covington	Covington and Oxford Street R. R. Co	2.50	3.00	132.00	9	3	2
132	Rome	North and South Street R. R. Co	1.63	1.63	75.02	13	2	2
133	Rome	Rome Street R'y Co	1.50	1.50	52.80	17	3	3
134	Savannah	City and Suburban R'y Co	6.00	7.50	508.64	160	34	20
135	Savannah	Savannah Street and Rural Resort R. R. Co	7.00	7.50	510.40	106	19	13
ILLINOIS.								
136	Alton	Alton and Upper Alton Horse Railway and Carrying Co	2.88	2.88	168.08	24	5	2
138	Aurora	Aurora City R'y Co	5.15	5.95	293.22	50	9	8
139	Belleville	Citizens' Horse R'y Co	4.00	4.50	126.72	23	9	7
140	Bloomington	Bloomington City R'y	11.00	14.00	932.80	84	25	10
141	Cairo	Cairo Street R'y Co	3.42	3.42	110.88	12	6	4
145	Chicago	North Chicago Street R. R. Co	33.38	65.88	5,249.38	1,403	350	144
146	Chicago	South Chicago City R'y Co	5.50	7.00	422.40	30	9	5
147	Chicago	West Chicago Street R. R. Co	60.50	130.00	11,440.00	4,200	1,177	596
148	Chillicothe	People's Street R. R. Co	1.50	1.50	52.80	10	4	2
149	Danville	Citizens' Street R'y Co	5.00	6.00	211.20	60	10	8
152	Freeport	Freeport Street R'y Co	3.50	3.75	231.00	16	6	4
153	Galesburg	College City Street R'y Co	5.00	5.21	284.26	26	12	6
154	Lasalle	Lasalle and Peru Horse and Dummy R. R. Co	1.46	1.46	51.39	3	6	1
155	Mechanicsburg	Mechanicsburg and Buffalo R'y Co	3.50	3.63	114.84	4	2	1
159	Peoria	Fort Clark Horse R'y Co	5.00	10.00	526.24	100	34	10
160	Rockford	Rockford City R'y Co	4.50	6.34	378.93	80	13	9
161	Rock Island	Rock Island and Milan Street R'y Co	2.00	2.25	99.00	6	8	2
162	Springfield	Citizens' Street R'y Co	9.25	9.75	471.90	100	35	10
163	Springfield	Springfield City R'y Co	7.00	7.50	462.00	86	25	10
164	Urbana	Urbana and Champaign Street R'y Co	2.00	2.00	109.12	20	5	2
INDIANA.								
165	Anderson	Anderson Street R'y Co	4.50	5.00	140.80	31	8	6
167	Evansville	Evansville Street R'y Co	10.50	16.00	909.92	253	56	28
169	Fort Wayne	C. L. Centlivre Street R'y Co	1.33	1.46	60.58	11	4	3
170	Fort Wayne	Fort Wayne Street R. R. Co	9.32	12.35	834.24	155	30	24
171	Greencastle	Greencastle City Street R. R. Co	2.60	2.60	114.40	8	3	2
172	Indianapolis	Citizens' Street R. R. Co	45.00	70.00	4,325.20	1,050	205	109
173	Jeffersonville	Ohio Falls Street R'y Co	4.50	4.92	217.27	36	8	7
175	Logansport	Logansport R'y Co	4.00	4.00	211.20	40	9	5
176	Madison	Madison Street R'y Co	2.50	2.73	72.07	16	7	4
177	Marion	Marion Street R. R. Co	1.00	1.00	66.88	6	1	1
178	Michigan city	Citizens' Street R'y Co	3.25	3.50	150.48	16	4	3
180	New Albany	New Albany R'y Co	7.50	8.50	299.20	90	25	15
182	South Bend	South Bend and Mishawaka R'y	8.50	8.50	545.60	31	12	4
183	Terre Haute	Terre Haute Street R'y Co	6.50	8.50	441.72	114	28	15
184	Terre Haute	Vigo County Street R'y Co	4.00	4.00	126.72	5	10	2
185	Vincennes	Vincennes Citizens' Street R'y Co	2.50	2.75	163.68	22	4	3
IOWA.								
186	Boone	Boone and Boonesboro Street R'y Co	1.85	1.85	65.12	8	3	2
187	Burlington	Burlington Street R. R.	2.50	3.25	100.10	20	9	4
188	Cedar Rapids	Cedar Rapids and Marion R'y	3.50	5.00	250.80	13	13	2
189	Centerville	People's Street R'y Co	1.75	1.75	61.60	12	2	2
192	Davenport	Davenport and Rock Island R'y Co	27.00	29.71	2,536.12	229	81	42
196	Dubuque	Dubuque Street R'y Co	8.00	10.00	901.12	65	22	8
198	Fort Madison	Fort Madison Street R'y Co	3.70	4.00	140.80	34	8	4
199	Keokuk	Keokuk Street R'y Co	3.50	3.75	178.20	30	12	4

a None owned; road is operated under lease by lessee company.
 b 2 miles leased line reported by lessor company not included.

c Includes equipment operated over leased line.

STATISTICS OF TRANSPORTATION.

TABLE 2.—DESCRIPTION OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH IN MILES—		Total weight of rail, estimated in tons of 2,000 pounds.	Number of horses and mules.	NUMBER OF PASSENGER CARS.	
			Of line.	Of all tracks, including sidings.			Total.	Average operated at once.
IOWA—continued.								
200	Lyons	Clinton and Lyons Horse R'y Co	9.50	9.50	494.56	58	24	8
201	Marshalltown	Marshalltown Passenger R'y Co	2.77	2.86	112.71	21	7	3
203	Red Oaks	Red Oaks Street R'y Co	1.00	1.00	28.16	4	2	1
206	Waterloo	Waterloo Street R'y Co	2.00	3.00	116.16	8	3	2
KANSAS.								
207	Abilene	Abilene Street R'y Co	3.00	3.25	114.40	12	3	2
208	Arkansas city	Arkansas City Street R'y Co	6.00	6.00	347.60	26	6	4
209	Atchison	Atchison Electric Street R'y Co	8.00	10.00	440.00	50	20	10
210	Cottonwood Falls	Consolidated Street R'y Co	1.50	1.75	61.60	7	2	2
211	Hutchinson	Hutchinson Street R'y Co	9.25	10.00	352.00	50	10	8
213	Lawrence	Lawrence Transportation Co	5.00	5.50	367.84	50	9	5
214	Leavenworth	Leavenworth and Suburban R'y	4.64	5.00	193.60	49	14	9
216	McPherson	McPherson Street R'y Co	4.50	4.50	158.40	15	3	3
217	Newton	Newton City Street R'y Co	4.50	4.75	167.20	14	6	3
218	Ottawa	Ottawa Street R. R. Co	2.00	2.00	105.60	15	4	2
219	Salina	Salina R'y Co	3.00	3.50	123.20	16	11	4
221	Topeka	Topeka City R'y Co	11.00	16.00	991.76	186	51	20
223	Wichita	Wichita Rapid Transit Co	4.50	4.50	198.00	4	4	1
224	Winfield	Union Street R'y Co	4.50	5.00	215.60	16	5	3
KENTUCKY.								
225	Bowling Green	Park City R'y	1.59	1.59	72.93	8	7	2
226	Covington	South Covington and Cincinnati Street R'y Co	15.34	25.61	2,265.91	366	47	40
227	Henderson	Henderson Street R'y Co	4.25	4.20	183.04	43	7	6
228	Louisville	Louisville R'y Co	79.92	119.00	8,490.24	2,141	393	228
229	Maysville	Maysville Street Railroad and Transfer Co	3.00	3.00	105.60	31	7	4
230	Owensboro	Owensboro City R'y Co	4.90	4.90	172.48	20	11	11
231	Paducah	Paducah Street R'y Co	8.00	8.50	466.40	30	16	12
LOUISIANA.								
232	New Orleans	Canal and Claiborne R. R. Co	13.00	13.00	878.77	220	40	32
233	New Orleans	Crescent City R. R. Co	13.00	26.60	1,744.16	390	80	60
234	New Orleans	New Orleans and Carrollton R. R. Co	16.00	16.00	985.60	235	66	44
237	New Orleans	Orleans R. R. Co	9.50	9.50	668.80	150	32	25
238	New Orleans	Saint Charles Street R. R. Co	11.14	11.14	700.70	260	64	45
MAINE.								
239	Biddeford	Biddeford and Saco R. R. Co	5.73	6.03	371.45	73	12	5
240	Fryeburg	Fryeburg Horse R. R. Co	3.00	3.00	84.48	1	3	1
241	Portland	Portland R. R. Co	11.31	14.60	1,059.52	265	51	25
MARYLAND.								
242	Baltimore	Baltimore and Powhatan R'y Co	6.00	6.00	316.80	22	6	3
243	Baltimore	Baltimore City Passenger R'y Co	22.50	46.75	3,789.72	1,300	166	127
244	Baltimore	Baltimore Traction Co	15.00	25.00	2,560.80	664	100	80
245	Baltimore	Baltimore Union Passenger R'y Co	28.44	34.17	2,547.16	605	94	64
246	Baltimore	Highlandtown and Point Breeze R'y Co	11.00	11.00	749.76	85	25	10
248	Baltimore	North Baltimore Passenger R'y Co	10.50	21.00	1,663.20	477	76	60
MASSACHUSETTS.								
253	Boston	Lynn and Boston R. R. Co	40.06	49.12	4,486.94	952	242	76
254	Boston	Malden and Melrose R. R. Co	6.29	6.76	524.48	(a)	(a)	(a)
255	Boston	Newton Street R'y Co	5.48	5.78	457.78	4	17	3
256	Boston	North Woburn Street R. R. Co	7.34	8.01	528.66	53	11	5
258	Boston	Somerville Horse R. R. Co	4.88	5.41	476.08	(b)	(b)	(b)
260	Brockton	Brockton Street R'y Co	12.75	13.50	937.20	179	39	17
262	Fall River	Globe Street R'y Co	12.29	17.38	1,279.43	288	66	24
263	Fitchburg	Fitchburg Street R'y Co	6.30	6.69	409.81	53	13	8
264	Gloucester	Gloucester Street R'y Co	5.03	5.38	347.72	77	18	7
265	Haverhill	Haverhill and Groveland Street R'y Co	12.40	14.00	815.47	93	38	10
266	Holyoke	Holyoke Street R'y Co	5.90	6.60	447.83	64	18	6
267	Lawrence	Merrimack Valley Horse R. R. Co	9.81	10.81	854.09	147	37	12
268	Lowell	Lowell and Dracut Street R'y Co	5.78	7.67	525.98	132	32	11
269	Lowell	Lowell Horse R. R. Co	12.08	13.38	969.90	216	55	21
271	Natick	Natick and Cochituate Street R'y Co	3.00	3.20	197.12	24	8	4
272	New Bedford	Union Street R'y Co	13.34	16.13	1,170.83	262	72	30
273	Newburyport	Newburyport and Amesbury Horse R. R. Co	10.93	12.63	847.18	113	27	8
275	Northampton	Northampton Street R'y Co	3.20	3.40	199.41	48	9	3
277	Pittsfield	Pittsfield Street R'y Co	3.33	3.62	238.92	40	10	3
279	Springfield	Springfield Street R'y Co	18.75	19.40	1,485.44	280	74	30
280	Taunton	Taunton Street R'y Co	7.50	10.06	619.41	88	23	8
281	Wareham	East Wareham, Onset Bay and Point Independence Street R'y Co	1.67	1.78	78.32	8	6	2
282	Worcester	Worcester Consolidated Street R'y Co	12.50	20.40	1,256.64	406	76	32
MICHIGAN.								
285	Detroit	Detroit City R'y	32.50	46.60	3,838.56	1,621	227	121
288	Detroit	Fort Wayne and Elmwood R'y Co	14.00	20.00	1,584.00	345	54	32
291	Grand Rapids	Valley City Street and Cable R'y Co	7.30	10.00	537.68	88	17	12
292	Jackson	Jackson City R'y Co	5.00	5.50	271.04	60	16	11
295	Saginaw	City of Saginaw Street R. R. Co	3.00	3.77	278.68	85	16	8

a Reported by lessee company.

b None owned; road is operated under lease by lessee company.

STREET RAILWAYS.

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TABLE 2.—DESCRIPTION OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH IN MILES—		Total weight of rail, estimated in tons of 2,000 pounds.	Number of horses and mules.	NUMBER OF PASSENGER CARS.	
			Of line.	Of all tracks, including sidings.			Total.	Average operated at once.
MINNESOTA.								
298	Anoka.....	Anoka Street R'y Co.....	2.75	3.00	137.28	10	3	2
299	Duluth.....	Duluth Street R'y Co.....	3.50	7.00	369.60	178	15	12
300	Mankato.....	Mankato Street R'y Co.....	3.33	3.50	166.32	16	5	4
302	Minneapolis.....	Minneapolis Street R'y Co.....	40.00	80.00	7,356.80	1,073	264	100
303	Saint Cloud.....	Saint Cloud City Street Car Co.....	1.50	1.60	78.85	10	2	2
304	Saint Paul.....	Saint Paul City R'y Co.....	14.67	29.34	2,593.23	742	113	54
306	Winona.....	Winona City R'y Co.....	4.82	4.82	212.08	36	10	6
MISSISSIPPI.								
307	Enterprise.....	Enterprise Street R'y Co.....	1.25	1.25	77.00	1	1	1
308	Jackson.....	Jackson City R'y Co.....	5.00	5.50	271.04	60	16	11
309	Meridian.....	Meridian Street R. R. Co.....	4.00	5.50	209.44	44	8	4
310	Natchez.....	Natchez Street R. R. Co.....	4.00	4.25	187.00	12	7	3
MISSOURI.								
311	Carthage.....	Carthage Horse R'y Co.....	3.00	3.00	105.60	16	3	3
312	Clinton.....	Clinton Street R'y Co.....	1.50	1.50	80.52	11	3	1
313	Hannibal.....	Hannibal R'y Co.....	1.50	2.50	158.40	18	6	4
315	Kansas city.....	Grand Avenue R'y Co.....	1.75	3.50	360.36	47	6	6
318	Kansas city.....	Metropolitan Street R'y Co.....	6.27	10.90	588.37	222	37	26
320	Kansas city.....	North Kansas City Street R'y.....	2.25	2.30	101.20	9	4	2
326	Saint Louis.....	Baden and Saint Louis R. R.....	3.00	3.25	123.20	24	10	5
327	Saint Louis.....	Benton-Bellefontaine R'y Co.....	7.00	8.00	644.16	305	72	26
328	Saint Louis.....	Cass Avenue and Fair Ground R'y Co.....	3.50	7.00	640.64	315	65	26
330	Saint Louis.....	Forest Park, Laclede and Fourth Street R'y Co.....	2.79	5.60	423.81	193	30	17
331	Saint Louis.....	Fourth Street and Arsenal R'y Co.....	3.00	3.00	211.20	106	15	13
332	Saint Louis.....	Jefferson Avenue R. R. Co.....	2.85	5.70	441.41	209	40	16
334	Saint Louis.....	Missouri R. R. Co.....	3.75	7.25	548.68	195	25	20
335	Saint Louis.....	Mound City Street R'y Co.....	5.82	8.10	559.72	303	65	28
336	Saint Louis.....	Northern Central R'y Co.....	8.00	10.00	915.20	236	58	23
339	Saint Louis.....	Saint Louis R. R. Co.....	7.33	14.67	1,548.80	643	136	60
340	Saint Louis.....	Southern R'y Co.....	7.83	17.00	2,333.76	312	57	30
341	Saint Louis.....	Union Depot R. R. Co.....	13.97	24.02	2,224.85	463	130	65
342	Saint Louis.....	Union R. R. Co.....	4.00	8.00	732.16	327	86	30
343	Sedalia.....	Sedalia Street R'y Co.....	2.00	2.00	98.56	18	7	3
344	Springfield.....	Citizens' R'y Co.....	7.80	8.60	503.36	99	18	10
345	Warrensburg.....	Electric Springs R'y.....	2.25	2.25	63.36	8	4	1
MONTANA.								
348	Helena.....	Helena Street R'y Co.....	3.50	3.50	199.76	50	8	5
NEBRASKA.								
349	Beatrice.....	Beatrice Street R'y Co.....	4.00	4.00	202.40	25	4	3
350	Fremont.....	Fremont Street R'y Co.....	5.00	5.25	185.68	20	7	4
351	Grand Island.....	Grand Island Street R'y Co.....	6.77	7.00	207.68	58	11	7
352	Hastings.....	Citizens' Street R'y Co.....	4.00	4.13	130.83	6	4	4
353	Kearney.....	Kearney Street R'y Co.....	4.00	4.01	112.92	12	4	2
354	Lincoln.....	Bethany Heights Street R'y Co.....	3.00	3.00	158.40	8	2	2
356	Lincoln.....	Lincoln Street R'y Co.....	12.84	16.61	781.09	200	30	24
357	Lincoln.....	South Lincoln Street R'y.....	2.50	2.50	70.40	8	1	1
358	Lincoln.....	Standard Street R'y Co.....	6.25	6.25	356.40	60	8	6
359	Nebraska city.....	Nebraska City Street R'y Co.....	3.25	3.50	175.56	26	4	4
360	Norfolk.....	Norfolk Street R'y Co.....	2.50	2.50	70.40	6	4	2
361	Omaha.....	Omaha Street R'y Co.....	21.00	38.92	2,397.47	250	20	15
362	Wymore.....	Wymore and Blue Springs R'y Co.....	3.75	3.75	145.20	10	4	2
363	York.....	York Street R'y Co.....	2.05	2.05	79.38	9	3	2
NEW HAMPSHIRE.								
364	Dover.....	Dover Horse R. R.....	2.39	2.53	133.58	15	4	2
365	Laconia.....	Laconia and Lake Village Horse R. R.....	2.45	2.67	121.44	27	10	2
366	Manchester.....	Manchester Street R'y.....	9.00	9.40	504.59	136	25	13
367	Nashua.....	Nashua Street R'y.....	3.90	4.90	301.84	68	20	6
NEW JERSEY.								
370	Camden.....	Camden Horse R. R. Co.....	14.12	15.00	1,166.95	138	41	30
371	Elizabeth.....	Elizabeth and Newark Horse R. R. Co.....	12.62	19.48	173	26	20	20
372	Jersey city.....	Jersey City and Bergen R. R. Co.....	18.25	38.00	3,812.16	799	129	70
373	Jersey city.....	North Hudson County R'y Co.....	21.00	28.50	3,029.84	791	128	100
374	Keyport.....	Keyport and Matawan Street R'y Co.....	3.00	3.00	200.64	27	6	5
375	Newark.....	Essex Passenger R'y Co.....	(a)	39.82	3,293.91	119	119	119
376	Newark.....	Newark and Irvington Street R'y Co.....	2.90	5.54	487.52	162	34	17
377	Newark.....	Newark and South Orange Horse Car R. R.....	7.25	11.50	1,029.60	400	65	30
378	New Brunswick.....	New Brunswick City R. R. Co.....	2.61	2.87	202.05	23	5	5
379	Orange.....	Orange Cross Town and Bloomfield R'y Co.....	6.50	7.00	468.16	86	13	11
380	Paterson.....	Paterson R'y Co.....	14.00	17.00	1,047.20	150	48	25
381	Phillipsburg.....	Phillipsburg Car R. R. Co.....	2.25	2.25	138.60	12	4	4
NEW MEXICO.								
382	Albuquerque.....	Albuquerque Street R. R. Co.....	2.00	2.02	71.10	13	6	2
383	Las Vegas.....	Las Vegas Street R'y Co.....	1.50	1.75	49.28	11	6	3

a No report of length of line received.

TABLE 2.—DESCRIPTION OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH IN MILES—		Total weight of rail, estimated in tons of 2,000 pounds.	Number of horses and mules.	NUMBER OF PASSENGER CARS.	
			Of line.	Of all tracks, including sidings.			Total.	Average operated at once.
NEW YORK.								
385	Albany	North and East Greenbush Horse R. R. Co.	1.70	1.70	149.60	20	6	3
387	Amsterdam	Amsterdam Street R. R. Co.	1.63	1.63	71.72	12	4	3
388	Auburn	Auburn City R'y Co.	5.13	5.25	323.40	37	10	6
389	Babylon	Babylon Horse R. R.	1.25	1.25	77.00	3	2	1
390	Binghamton	Binghamton and Port Dickenson R. R. Co.	7.00	7.60	401.28		5	
391	Binghamton	Binghamton Street R. R. Co.	3.00	3.33	203.57	19	4	3
392	Binghamton	Court Street and East End R. R. Co.	3.25	3.38	225.81	18	9	4
393	Brooklyn	Atlantic Avenue R'y Co.	11.50	23.25	2,168.76	1,183	291	120
394	Brooklyn	Broadway R. R. Co. of Brooklyn	11.09	23.04	2,433.02	669	204	82
395	Brooklyn	Brooklyn, Bushwick and Queens County R. R.	6.00	11.00	958.32	173	47	10
396	Brooklyn	Brooklyn City and Newtown R. R. Co.	10.20	18.95	1,881.63	611	218	88
397	Brooklyn	Brooklyn City R. R. Co.	78.35	164.25	15,754.86	5,360	1,509	500
402	Brooklyn	Coney Island and Brooklyn R. R. Co.	11.18	22.40	818.93	374	100	36
409	Brooklyn	Prospect Park and Coney Island R. R. Co. (City Div.)	3.50	7.00	591.36	193	50	25
410	Brooklyn	Prospect Park and Flatbush R. R. Co.	1.50	3.00	179.52	10	3	3
412	Brooklyn	South Brooklyn Central R. R. Co.	4.00	7.50	792.00	203	42	20
413	Brooklyn	Van Brunt Street and Erie Basin R. R. Co.	1.50	3.00	237.60	34	14	8
414	Buffalo	Buffalo East Side Street R'y Co.	31.70	42.61	3,749.68	430	63	35
415	Buffalo	Buffalo Street R. R. Co.	28.60	17.39	2,530.32	677	614	662
416	Buffalo	West Side Street R'y Co.	2.00	3.77	358.30	(c)	(c)	(c)
417	Canandaigua	Canandaigua Street R. R. Co.	2.50	2.75	166.76	25	6	4
418	Cortland	Cortland and Homer Horse R. R. Co.	3.89	4.09	195.36	19	8	2
419	Elmira	Elmira and Horseheads R'y Co.	11.90	11.90	941.25	42	30	12
420	Far Rockaway	Rockaway Village R. R. Co.	1.15	1.33	110.02	4	4	2
421	Frankfort	Frankfort and Ilion Street R. R. Co.	2.50	2.63	115.50	6	5	1
422	Fredonia	Dunkirk and Fredonia R. R. Co.	3.51	3.57	157.08	12	6	1
423	Fulton	Fulton and Oswego Falls Street R'y Co.	1.14	1.14	85.27	9	3	3
424	Glens Falls	Glens Falls, Sandy Hill and Fort Edward Street R'y Co.	7.25	7.60	334.40	25	8	5
426	Jamestown	Jamestown Street R'y Co.	3.37	4.34	292.51	42	13	8
427	Johnstown	Johnstown, Gloversville and Kingsboro Horse R'y Co.	4.08	4.11	188.07	16	6	2
428	Kingston	Kingston City R. R. Co.	2.78	2.98	209.79	40	8	6
429	Lockport	Lockport Street R. R. Co.	2.99	3.50	258.72	30	8	8
430	Long Island city	Long Island City and Newtown R. R. Co.	4.50	6.75	534.60	44	27	9
431	Long Island city	Steinway and Hunters Point R. R. Co.	18.75	31.50	2,605.68	269	85	20
432	Mohawk	Herkimer and Mohawk Street R. R. Co.	1.30	1.30	57.20	5	3	1
433	Mohawk	Mohawk and Ilion Horse R. R. Co.	1.75	1.75	92.40		4	1
434	New Brighton	Staten Island Belt Line R. R. Co.	7.00	7.25	319.00	48	15	5
435	Newburg	Newburg Street R'y Co.	3.50	4.81	253.97	65	11	8
436	New York	Broadway and Seventh Avenue R. R. Co.	10.83	21.65	2,467.87	1,812	224	185
437	New York	Central Cross Town R. R. Co.	22.04	4.19	977.47	536	113	75
438	New York	Central Park, North and East River R. R. Co.	9.58	19.16	2,023.30	1,115	196	110
439	New York	Chambers Street and Grand Street Ferry R. R. Co.	2.33	5.13	505.61	150	35	30
440	New York	Christopher and Tenth Street R. R. Co.	3.25	6.50	514.80	310	44	39
441	New York	Dry Dock, East Broadway and Battery R. R. Co.	7.92	18.34	1,936.70	918	181	76
442	New York	Eighth Avenue R. R. Co.	10.00	20.00	2,112.00	1,116	165	88
443	New York	Forty-second Street and Grand Street Ferry R. R. Co.	4.25	8.50	927.52	500	72	42
444	New York	Forty-second Street, Manhattanville and Saint Nicholas Avenue R'y Co.	9.41	18.82	2,016.91	786	85	65
445	New York	Harlem Bridge, Morrisania and Fordham R'y Co.	9.09	18.18	1,693.31	309	68	31
446	New York	Houston, West Street and Pavonia Ferry R. R. Co.	3.76	8.02	846.91	360	44	40
448	New York	Larchmont Horse R'y Co.	1.50	1.63	100.10	8	3	3
451	New York	Mount Vernon and East Chester R'y Co.	4.00	4.50	293.04	30	8	5
452	New York	New Rochelle and Pelham R'y Co.	7.00	8.00	535.04	25	14	6
454	New York	New York and Harlem R. R. Co. (St. R'y Div.)	8.58	17.67	1,918.40	1,282	162	140
455	New York	Ninth Avenue R. R. Co.	8.00	16.00	1,478.40	542	68	50
456	New York	Pelham Park R. R. Co.	3.00	3.30	174.24	11	8	4
457	New York	Second Avenue R. R. Co.	13.50	28.00	2,956.80	1,900	330	150
458	New York	Sixth Avenue R. R. Co.	3.81	8.37	883.87	1,099	117	88
460	New York	Third Avenue R. R. Co.	8.25	16.88	1,782.00	1,739	307	135
461	New York	Twenty-third Street R'y Co.	6.87	10.48	922.24	903	100	84
462	Niagara Falls	Niagara Falls and Suspension Bridge R'y Co.	1.99	2.50	167.20	38	14	4
463	Ogdensburg	Ogdensburg Street R'y Co.	4.44	4.60	182.16	19	7	4
464	Olean	Olean Street R'y Co.	1.10	1.19	52.36	8	3	2
465	Oneida	Oneida R'y Co.	1.50	1.50	124.08	8	3	2
466	Onondaga	Onondaga Street R'y Co.	2.27	2.27	149.18	10	4	3
467	Oswego	Oswego Street R'y Co.	2.03	2.03	160.78	17	5	3
469	Rochester	Rochester R'y Co.	31.13	53.17	4,211.06	846	176	131
470	Rome	Rome City Street R'y Co.	5.50	6.70	453.11	48	14	6
471	Schenectady	Schenectady Street R'y Co.	2.00	2.28	160.51	30	5	4
472	Stillwater	Stillwater and Mechanicsville Street R'y Co.	4.35	4.42	213.93	7	4	1
473	Syracuse	Central City R'y Co.	2.88	4.83	413.62	67	18	7
474	Syracuse	Fifth Ward R. R. Co.	2.95	3.52	238.52	53	14	12
475	Syracuse	Fourth Ward R'y Co.	2.75	3.01	238.22	37	9	6
476	Syracuse	Genesee and Water Street R. R. Co.	3.75	4.75	340.56	63	12	7
477	Syracuse	New Brighton and Onondaga Valley R. R. Co.	21.88	1.88	52.80	11	4	2
478	Syracuse	People's R. R. Co. of Syracuse	5.95	10.36	856.98	180	34	15
479	Syracuse	Syracuse and Geddes R'y Co.	2.00	3.00	203.28	30	13	5
480	Syracuse	Syracuse and Onondaga R'y Co.	2.00	2.63	168.08	32	10	5
482	Syracuse	Woodlawn and Butternut Street R'y Co.	1.76	1.95	148.90	34	6	4
484	Troy	Troy and Albion Horse R. R. Co.	3.17	3.33	234.43	52	7	7
487	Utica	Utica and Mohawk R. R. Co.	2.75	3.08	217.94	27	16	4

a 2 miles leased line reported by lessor company not included.

b Includes equipment of leased line.

c Reported by lessee company.

d 3.75 miles leased line reported by lessor company not included.

e 0.75 mile leased line reported by lessor company not included.

STREET RAILWAYS.

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TABLE 2.—DESCRIPTION OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH IN MILES—		Total weight of rail, estimated in tons of 2,000 pounds.	Number of horses and mules.	NUMBER OF PASSENGER CARS.	
			Of line.	Of all tracks, including sidings.			Total.	Average operated at once.
NORTH CAROLINA.								
490	Charlotte	Charlotte Street R'y Co.	2.50	3.00	84.48	36	7	4
491	Raleigh	Raleigh Street R'y Co.	5.00	6.00	237.60	35	8	7
OHIO.								
493	Bellaire	Bellaire Street R'y Co.	2.50	2.50	132.00	14	5	4
494	Berea	Berea Street R. R. Co.	1.15	1.15	54.65	3	2	1
497	Cincinnati	Cincinnati Street R'y Co.	46.02	77.07	6,144.78	1,555	304	12
498	Cincinnati	Mount Adams and Eden Park Inclined R'y	3.50	8.00	746.24	140	24	15
502	Cleveland	Cleveland City Cable R'y Co.	12.00	12.00	950.40	480	120	45
505	Cleveland	Woodland Avenue and West Side Street R. R. Co.	22.00	44.00	4,185.28	780	140	45
506	Columbus	Columbus Consolidated Street R. R. Co.	16.50	30.00	2,597.76	620	142	62
507	Columbus	Glenwood and Greenlawn Street R'y Co.	4.50	4.75	300.96	24	8	5
509	Dayton	Dayton Street R. R. Co.	4.35	8.70	689.04	131	26	15
510	Dayton	Fifth Street R. R. Co.	4.50	9.00	737.44	116	28	18
511	Dayton	Oakwood Street R'y Co.	2.75	5.50	367.84	65	17	8
512	Dayton	Wayne and Fifth Street R. R. Co.	4.00	6.75	435.60	64	17	10
513	Findlay	Blanchard Avenue Street R'y Co.	5.00	5.50	242.00	18	6	4
514	Findlay	Findlay Street R'y Co.	8.00	12.00	528.00	80	14	9
515	Findlay	Lima Avenue Street R'y Co.	3.25	3.29	115.81	16	2	2
516	Findlay	Wyoming Place and Findlay Street R'y Co.	1.25	1.38	84.70	3	1	1
517	Fremont	Fremont Street R'y Co.	2.00	2.00	140.80	9	2	2
518	Hamilton	Hamilton Street Railway and Electric Co.	3.00	3.00	190.08	10	5	2
520	Lorain	Lorain Street R'y Co.	1.36	1.39	102.75	9	3	2
522	Middletown	Middletown and Madison Street R'y Co.	1.50	1.51	114.28	6	4	2
524	Newark	Newark City R'y Co.	4.00	4.50	277.20	64	11	7
527	Sandusky	Sandusky Street R'y Co.	4.00	5.00	328.55	30	7	6
528	Springfield	Citizens' Street R. R. Co.	11.11	11.11	586.60	142	22	16
530	Tiffin	Tiffin Street R'y Co.	5.50	5.50	338.80	36	14	5
531	Toledo	Toledo Consolidated Street R'y Co.	32.09	42.00	3,311.40	575	112	69
532	Youngstown	Youngstown Street R. R. Co.	2.00	2.50	123.20	18	6	4
533	Zanesville	Zanesville and McIntire Street R'y Co.	3.00	3.75	249.48	70	20	9
OREGON.								
534	Albany	Albany Street R'y Co.	0.80	1.00	44.00	3	2	2
535	Astoria	Astoria Street R'y Co.	3.00	3.06	139.57	20	8	5
537	Portland	Multnomah Street R'y Co.	1.71	1.83	96.62	65	21	7
541	Portland	Portland Street R'y Co.	1.82	2.03	135.10	54	8	7
542	Portland	Transcontinental Street R'y Co.	7.56	13.00	710.16	165	35	27
PENNSYLVANIA.								
545	Altoona	City Passenger R'y Co.	3.33	3.51	268.21	46	18	7
546	Beaver Falls	Beaver Valley Street R'y Co.	3.10	3.70	247.46	59	9	8
547	Bradford	Bradford and Kendall Street R'y Co.	1.50	1.50	66.00	4	2	1
548	Chester	Chester Street R'y Co.	7.25	7.55	598.40	82	18	12
549	Easton	Easton, South Easton and West End Passenger R'y Co.	4.00	4.88	360.36	52	16	5
553	Harrisburg	Harrisburg City Passenger R'y Co.	5.33	5.52	437.18	75	26	17
554	Lancaster	Lancaster and Millersville R. R. Co.	5.50	5.50	303.60	14	5	3
555	Lancaster	Lancaster City Street R'y Co.	5.50	5.50	467.44	40	18	10
556	Lancaster	West End Street R'y Co.	1.03	1.04	126.02	10	2	2
557	McKeesport	McKeesport Passenger R'y Co.	1.78	2.82	227.78	30	5	4
558	Norristown	Citizens' Passenger R'y Co.	3.00	3.19	280.72	42	10	6
559	Norristown	Norristown Passenger R'y Co.	4.00	4.25	336.60	36	8	4
561	Philadelphia	Citizens' Passenger R'y Co.	10.50	10.50	850.08	383	73	36
565	Philadelphia	Hestonville, Mantua and Fairmount Passenger R. R. Co.	8.75	17.96	1,692.45	494	97	72
567	Philadelphia	Lombard and South Streets Passenger R'y Co.	19.50	21.00	1,848.00	478	65	60
568	Philadelphia	Manayunk and Roxboro Inclined Plane and R'y Co.	5.42	6.00	506.88	34	8	4
569	Philadelphia	People's Passenger R'y Co.	32.10	44.45	3,821.92	1,460	204	153
570	Philadelphia	Philadelphia and Grays Ferry Passenger R'y Co.	10.38	12.88	997.43	200	28	22
573	Philadelphia	Ridge Avenue Passenger R'y Co.	15.00	15.00	1,267.20	383	60	48
574	Philadelphia	Second and Third Streets Passenger R'y Co.	37.00	41.00	3,391.52	690	116	85
576	Philadelphia	Thirteenth and Fifteenth Streets Passenger R'y Co.	13.25	14.75	1,282.16	619	97	56
580	Pittsburg	Citizens' Traction Co.	6.50	6.50	514.80	67	9	9
585	Pittsburg	Mount Oliver Incline R'y Co.	1.29	1.29	102.17	24	7	5
587	Pittsburg	Pittsburg, Allegheny and Manchester Passenger R'y Co.	5.16	10.32	817.34	381	49	39
588	Pittsburg	Pittsburg and Birmingham Passenger R. R. Co.	3.70	7.17	832.87	(a)	(a)	(a)
589	Pittsburg	Pittsburg and Birmingham Traction Co.	(b)	(b)	(b)	c246	c40	c26
590	Pittsburg	Pittsburg and West End Passenger R'y Co.	5.25	10.50	757.68	138	22	20
593	Pittsburg	Pittsburg Union Passenger R'y Co.	4.06	7.93	628.06	159	23	14
596	Pittsburg	South Side Passenger R'y Co.	3.00	6.00	496.32	(a)	(a)	(a)
598	Pittston	Pittston Street Car Co.	1.75	1.75	130.90	7	1	2
601	Reading	Reading City Passenger R'y Co.	16.50	18.50	1,529.44	279	67	30
603	Stroudsburg	Stroudsburg Passenger R'y Co.	1.38	1.50	70.40	12	2	1
605	Wilkesbarre	Coalville Passenger R. R. Co.	2.50	2.50	110.00	16	5	2
606	Wilkesbarre	Wilkesbarre and Kingston Passenger R'y Co.	4.00	4.25	283.80	20	10	7
609	Williamsport	Williamsport Passenger R'y Co.	4.92	5.56	391.42	30	13	8
610	York	York Street R'y Co.	5.00	5.38	336.60	33	15	6
RHODE ISLAND.								
612	Pawtucket	Pawtucket Street R'y Co.	7.10	8.40	798.34	128	23	10
613	Providence	Providence Cable Tramway Co.	(d)	(d)	(d)	e116	e24	e14
614	Providence	Union R. R. Co.	41.95	56.33	4,866.08	1,515	301	132
615	Woonsocket	Woonsocket Street R'y Co.	5.40	5.60	369.60	50	10	4

a Reported by Pittsburg and Birmingham Traction Co., lessees.

b Operates Pittsburg and Birmingham Passenger R. R. and South Side Passenger R'y under lease. Statistics reported by lessor companies.

c Equipment operated over leased lines.

d Operated over line of Union R. R. Co., and reported by them.

e Operated over line of Union R. R. Co.

STATISTICS OF TRANSPORTATION.

TABLE 2.—DESCRIPTION OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH IN MILES—		Total weight of rail, estimated in tons of 2,000 pounds.	Number of horses and mules.	NUMBER OF PASSENGER CARS.	
			Of line.	Of all tracks, including sidings.			Total.	Average operated at once.
SOUTH CAROLINA.								
616	Charleston.....	Charleston City R'y Co.....	13.00	13.00	915.20	137	34	24
617	Charleston.....	Enterprise R. R. Co.....	5.69	11.00	580.80	75	25	17
618	Charleston.....	Middle Street Sullivan's Island R'y Co.....	2.00	2.00	105.60	8	6	2
619	Greenville.....	Street R'y Co. of the City of Greenville.....	2.25	2.50	70.40	30	2	2
620	Orangeburg.....	Orangeburg City Street R'y Co.....	1.25	1.50	105.60	8	2	2
SOUTH DAKOTA.								
621	Deadwood.....	Deadwood Street R'y Co.....	1.75	1.75	92.40	3	3	2
622	Pierre.....	Pierre City R'y Co.....	4.10	4.20	236.19	22	5	3
623	Rapid city.....	Rapid City Street R. R. Co.....	1.50	1.50	66.00	3	2	1
624	Sioux Falls.....	Sioux Falls City Street R'y Co.....	8.00	8.00	422.40	40	6	4
627	Yankton.....	Yankton Street R'y Co.....	2.00	2.00	88.00	6	2	2
TENNESSEE.								
628	Bristol.....	Bristol Street Car Co.....	1.50	1.61	66.00	12	4	3
630	Chattanooga.....	City Street R. R. Co.....	7.24	10.76	667.66	115	24	12
631	Clarksville.....	Clarksville Street R'y Co.....	1.75	1.75	49.28	16	3	3
632	Cleveland.....	Cleveland Street R'y Co.....	1.50	1.56	65.89	6	2	2
633	Columbia.....	Columbia Street R'y Co.....	2.50	2.50	176.00	7	4	2
634	Jackson.....	Jackson and Suburban Street R. R.....	5.50	5.50	290.40	32	9	5
636	Knoxville.....	West End Street R. R. Co.....	1.75	1.78	125.31	19	3	3
638	Murfreesboro.....	Murfreesboro Street Car R'y Co.....	3.00	3.00	105.60	18	5	3
TEXAS.								
642	Corsicana.....	Corsicana Street R'y Co.....	4.25	4.25	119.68	26	6	4
643	Denison.....	Denison Street R'y.....	4.00	4.50	142.56	34	9	4
644	El Paso.....	El Paso Street R'y Co.....	2.75	3.00	140.80	40	13	6
645	El Paso.....	Santa Fe Street R'y Co.....	1.00	1.25	72.69	16	4	3
648	Gainesville.....	Gainesville Street R'y Co.....	3.50	5.00	264.00	20	12	6
649	Galveston.....	Galveston City R. R. Co.....	29.89	37.05	1,956.24	281	90	50
650	Houston.....	Bayou City Street R'y Co.....	10.00	16.00	792.00	130	34	23
651	Houston.....	Houston City Street R'y Co.....	15.35	18.45	924.62	170	40	28
653	Longview.....	Longview and Junction R'y Co.....	0.75	0.75	21.12	3	2	1
654	Marshall.....	Marshall Street Railway and Transportation Co.....	0.75	0.75	26.40	2	1	1
655	Paris.....	Paris R'y Co.....	4.00	4.25	259.60	40	8	6
656	San Antonio.....	Cross Town R. R. Co.....	1.13	1.25	77.00	2	3	1
658	Sherman.....	Sherman City R. R. Co.....	3.75	5.00	176.00	52	11	6
659	Victoria.....	Victoria Street Railway and Improvement Co.....	2.25	2.25	79.20	11	3	3
660	Waco.....	Waco Street R'y Co.....	9.00	12.00	516.56	75	22	12
661	Waxahachie.....	Waxahachie Street R'y Co.....	2.00	2.00	70.40	14	2	2
662	Weatherford.....	Weatherford City and Suburban R. R. Co.....	2.00	2.00	56.32	6	2	2
VERMONT.								
664	Burlington.....	Winooski and Burlington Horse R. R. Co.....	6.00	6.00	264.00	32	9	4
665	Rutland.....	Rutland Street R'y Co.....	7.33	7.41	260.83	29	10	5
VIRGINIA.								
666	Charlottesville.....	Charlottesville and University Street R'y Co.....	1.50	1.50	42.24	16	4	4
668	Lynchburg.....	Lynchburg Street R'y Co.....	3.25	3.38	143.88	45	9	7
669	Norfolk.....	Berkley Street R'y Co.....	1.25	1.50	83.60	5	2	2
670	Norfolk.....	Norfolk City R. R. Co.....	4.25	5.15	344.52	100	26	14
671	Norfolk.....	Suburban and City Railway and Improvement Co.....	2.85	3.20	225.28	56	15	10
672	Portsmouth.....	Portsmouth Street R'y Co.....	4.17	4.92	259.77	19	7	5
673	Richmond.....	Richmond and Manchester R'y Co.....	2.50	4.50	356.40	40	10	6
674	Richmond.....	Richmond City Railway and Electric Co.....	4.00	6.50	514.80	150	20	12
675	Roanoke.....	Roanoke Street R'y Co.....	4.00	4.00	189.20	20	5	3
WASHINGTON.								
676	Olympia.....	Olympia R'y Co.....	0.75	0.76	39.46	6	2	1
684	Spokane.....	Spokane Street R'y Co.....	6.00	10.00	457.60	74	12	12
685	Walla Walla.....	Walla Walla Street Railway and Investment Co.....	3.50	3.80	212.08	25	6	6
WEST VIRGINIA.								
687	Parkersburg.....	Park City Street R'y.....	4.00	5.00	206.80	28	8	6
688	Wheeling.....	Citizens' R'y Co.....	1.20	2.40	152.06	30	4	4
WISCONSIN.								
693	Fond du Lac.....	Fond du Lac Street R'y Co.....	3.68	3.79	200.11	37	8	6
694	Lacrosse.....	Lacrosse and Onalaska Street R'y Co.....	2.88	2.92	154.18	6	2	1
695	Lacrosse.....	Lacrosse City R'y Co.....	6.51	7.47	525.89	78	19	14
696	Madison.....	Madison City R'y Co.....	7.25	7.25	371.36	80	17	9
697	Milwaukee.....	Cream City R'y Co.....	14.56	26.00	1,886.72	521	84	41
699	Milwaukee.....	Milwaukee City R. R. Co.....	17.86	35.73	2,829.82	655	103	57
702	Oshkosh.....	Oshkosh Street R. R. Co.....	8.00	9.00	475.20	57	13	10
703	Racine.....	Belle City Street R'y Co.....	4.50	8.00	496.32	70	12	10
704	Sheboygan.....	Sheboygan City R'y.....	4.75	5.00	325.60	38	6	5
WYOMING.								
706	Cheyenne.....	Cheyenne Street R. R. Co.....	4.75	5.00	193.60	20	11	4

STREET RAILWAYS.

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TABLE 2.—DESCRIPTION OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS.

No.	STATES AND CITIES.	Name of road.	LENGTH IN MILES—		Total weight of rail, estimated in tons of 2,000 pounds.	STEEPEST GRADE.		Radius of sharp curve in feet.	Number of power stations.	ENGINES.		Number of dynamos.	NUMBER OF PASSENGER CARS.		
			Of line.	Of all tracks, including sidings.		Per cent of rise.	Length in feet.			No.	Total indicated horse power.		Motor.	Tow.	Average operated at once.
CALIFORNIA.															
28	Los Angeles.....	Los Angeles Electric R'y Co	8.00	8.50	299.20	3.00	1,000	50	1	2	140	3	10	6	8
71	San Jose.....	San Jose and Santa Clara R'y Co. (a)	5.75	10.00	399.52	1.00	300	50	1	1	100	1	10	6	6
COLORADO.															
79	Denver.....	Colfax Avenue Electric R. R. Co. (a)	6.00	6.25	330.00	2.00	650	50	1	1	100	1	4	4	4
83	Denver.....	Denver Tramway Co	13.75	27.50	2,178.00	5.50	600	50	3	6	80	13	47	40	40
84	Denver.....	University Park Railway and Electric Co.	3.62	4.00	211.20	4.50	200	50	1	1	80	1	3	3	2
CONNECTICUT.															
87	Birmingham ...	Derby Street R'y Co.....	3.00	3.26	258.19	7.50	300	50	1	1	100	1	4	4	3
90	Hartford.....	Hartford and Wethersfield Horse R'y Co. (a)	3.00	3.00	211.20	4.00	300	33	1	1	100	1	3	3	2
DELAWARE.															
104	Wilmington....	Wilmington City R'y Co. (a)	3.00	3.31	302.93	7.80	300	40	1	1	100	1	10	10	6
DIST. COLUMBIA.															
109	Washington....	Eckington and Soldiers' Home R'y Co.	5.00	9.00	1,232.00	7.50	692	50	1	3	315	3	13	8	7
110	Washington....	Georgetown and Tennallytown R'y Co.	4.00	8.03	682.44	10.00	500	70	1	2	385	3	6	6	5
GEORGIA.															
121	Atlanta.....	Atlanta and Edgewood Street R. Co.	2.00	3.50	332.64	3.80	300	38	1	2	450	4	10	4	9
123	Atlanta.....	Fulton County Street R. R. Co....	9.42	9.84	717.73	7.50	500	45	1	2	450	4	10	4	9
125	Augusta.....	Augusta and Summerville R. R. Co. (a)	3.00	3.00	237.60	6.00	3,000	33	1	1	130	1	3	3	3
126	Augusta.....	Augusta R'y Co	16.00	24.14	1,546.91	8.00	1,760	50	2	2	150	3	21	27	18
ILLINOIS.															
150	Decatur.....	Citizens' Electric Street R'y Co. (a)	6.00	7.00	454.08	4.00	400	40	1	2	190	2	11	4	8
151	East Saint Louis.....	Saint Louis and East Saint Louis Electric R'y Co.	1.00	2.13	176.88	4.50	1,250	50	1	2	190	2	6	4	4
156	Moline.....	Moline Central Street R'y Co. (a)	2.88	3.00	220.00	6.00	2,100	60	1	1	200	2	3	1	4
157	Ottawa.....	Ottawa Electric Street R'y Co	6.75	7.00	524.48	7.00	250	26	1	1	200	2	8	4	12
158	Peoria.....	Central R'y Co. (a).....	6.25	13.00	1,256.64	8.50	800	26	1	2	600	6	31	50	30
INDIANA.															
166	Elkhart.....	Citizens' Street R'y Co. (a)	7.00	7.00	334.40	4.00	200	50	1	1	200	2	7	2	6
174	Lafayette.....	Lafayette Street R'y Co. (a)	4.00	4.50	255.92	8.00	200	50	1	1	130	4	8	3	5
181	Richmond.....	Richmond City R'y Co. (a)	3.00	3.50	127.60	3.00	1,000	50	1	1	125	1	6	10	12
182	South Bend	South Bend and Mishawaka R'y. (a)	8.50	8.50	561.00	3.00	600	50	1	1	250	1	6	8	6
IOWA.															
191	Council Bluffs..	Omaha and Council Bluffs Railway and Bridge Co. (a)	9.74	15.69	1,167.41	4.00	3,960	50	1	4	750	8	26	20	25
193	Davenport.....	Davenport Central R'y Co. (a)	2.88	3.88	286.00	7.25	1,500	42	1	1	200	2	8	3	5
202	Ottumwa.....	Ottumwa Railway, Electric and Steam Co.	4.50	4.90	313.63	10.00	678	45	1	5	300	1	5	2	4
205	Sioux city.....	Sioux City Street R'y Co. (a).....	8.00	13.00	888.80	10.00	300	45	1	1	225	2	20	16	18
KANSAS.															
222	Topeka.....	Topeka Rapid Transit R'y Co. (a) .	16.50	18.10	1,320.35	6.00	450	40	1	2	750	7	30	20	20
KENTUCKY.															
228	Louisville.....	Louisville R'y Co.....	4.50	9.00	926.64	5.00	1,000	26	1	3	240	3	16	20	22
MARYLAND.															
247	Baltimore.....	North Avenue R'y Co. of Baltimore City.	1.63	1.63	119.90	6.54	150	50	1	1	40	1	1	1	1
MASSACHUSETTS.															
249	Attleboro.....	Attleboro, North Attleboro and Wrentham Street R'y Co.	6.00	6.36	447.74	6.00	500	45	1	2	300	3	7	4	4
250	Beverly.....	Beverly and Danvers Street R'y Co.	3.09	3.21	225.98	7.00	300	27	1	1	35	1	2	5	1
252	Boston.....	Boston and Revere Electric Street R'y Co.	2.19	4.23	416.91	7.00	1,000	500	1	1	400	2	5	9	4
253	Boston.....	Lynn and Boston R. R. Co. (a)....	12.99	17.81	1,410.55	12.00	200	35	1	1	100	1	12	12	5
257	Boston.....	Quincy and Boston Street R'y Co. (a)	7.87	7.89	467.16	7.00	225	45	1	1	100	1	5	6	4
261	Brockton.....	East Side Street R'y Co.....	4.25	4.50	316.80	3.00	300	40	1	1	150	1	4	3	2
268	Lowell.....	Lowell and Dracut Street R'y Co. (a)	5.03	5.21	414.13	4.60	200	36	1	1	100	1	18	18	16
270	Marlboro.....	Marlboro Street R'y Co.....	2.51	2.90	193.95	7.00	200	50	1	2	60	2	6	6	3
273	Newburyport ..	Newburyport and Amesbury Horse R. R. Co. (a)	4.06	5.08	312.93	8.00	200	30	1	1	250	1	3	3	2
274	North Adams.....	Hoosac Valley Street R'y Co. (a) ..	5.93	6.23	438.59	4.50	400	50	1	1	100	1	5	11	2
278	Plymouth.....	Plymouth and Kingston Street R'y Co.	4.25	4.50	277.20	10.00	100	50	1	1	100	1	4	11	3
279	Springfield.....	Springfield Street R'y Co. (a).....	2.00	2.51	220.88	5.00	500	50	1	1	100	1	4	3	2

a Electricity substituted for other power.

STATISTICS OF TRANSPORTATION.

TABLE 2.—DESCRIPTION OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH IN MILES—		Total weight of rail, estimated in tons of 2,000 pounds.	STEEPEST GRADE.		Radius of sharp curve in feet.	Number of power stations.	ENGINES.		Number of dynamos.	NUMBER OF PASSENGER CARS.		
			Of line.	Of all tracks, including sidings.		Per cent of rise.	Length in feet.			No.	Total indicated horse power.		Motor.	Tow.	Average operated at once.
MICHIGAN.															
283	Adrian.....	Adrian City Electric Belt R'y Co.	2.80	2.91	194.62	6.00	400	60	1	1	150	1	3		3
284	Bay city.....	West Bay City Street R'y Co.	4.00	7.00	440.00				1	1		3	8	12	14
286	Detroit.....	Detroit, Rouge River and Dearborn R'y Co.	1.25	1.25	114.40	3.00	150		1	1	67	1	1		1
287	Detroit.....	East Detroit and Grossepoint R'y Co.	8.00	8.15	339.68				1	2	135	2	4	1	3
289	Detroit.....	Highland Park R'y Co.	3.50	3.54	200.11	3.00	1,320		1	1	60	2	4	2	2
293	Muskegon.....	Muskegon R'y Co. (a).....	6.00	6.50	385.44	6.00	300					2	5	5	4
294	Port Huron.....	Gratiot Electric R'y Co. (a).....	5.25	5.75	192.69	3.00	300	75	1	2	120	2	6	6	8
296	Saginaw.....	Saginaw Union Street R'y (a).....	12.50	13.62	1,006.79	3.00	300		1	2	275	4	21	11	25
297	Sault Ste. Marie	Sault Ste. Marie Street R'y Co.	4.00	4.25	224.40				1	1	50	2	5		4
MINNESOTA.															
304	Saint Paul.....	Saint Paul City R'y Co. (a).....	5.59	11.18	1,013.95	6.00	300	40				3	9	9	14
305	Stillwater.....	Stillwater Street R'y Co.	5.25	5.50	290.40	9.75	300	40	1	1	120	2	5		4
MISSOURI.															
318	Kansas city.....	Metropolitan Street R'y Co. (a).....	4.11	7.54	587.77	5.20	475	35	1	1	125	2	12	15	9
319	Kansas city.....	North East Street R'y Co. (a).....	3.50	7.00	640.64	8.33	300	35	1	2	300	3	12		10
323	Kansas city.....	Vine Street Motor R'y Co. (a).....	3.00	3.13	211.20	3.00	15,840		1	1	75	1	4		4
324	Saint Joseph.....	People's Street Railway and Electric Light and Power Co. (a).....	7.00	10.00	668.80	9.00	300	40	1	2	300	4	17	10	13
325	Saint Joseph.....	Wyatt Park R'y Co.	6.38	12.88	679.80	8.50	1,150	35	1	3	300	3	17	4	12
NEBRASKA.															
361	Omaha.....	Omaha Street R'y Co. (a).....	26.00	51.00	4,039.20	9.00	400	38	2	4	1,100	14	67	57	80
NEW JERSEY.															
368	Asbury Park.....	Seashore Electric R'y Co.	3.75	4.42	365.62	5.00	250	50	1	5	390	6	21		12
369	Atlantic city.....	Camden and Atlantic R. R. Co. (St. R'y Div.). (a)	3.12	6.50	686.40				1	3	300	4	23	9	22
NEW YORK.															
386	Albany.....	Watervliet Turnpike and R. R. Co. (a)	67.25	15.54	1,249.81				1	3	125	3	16	1	14
391	Binghamton.....	Binghamton Street R. R. Co. (a).....	9.00	9.67	733.92	10.00	247	40	1	2	420	2	13	6	9
406	Brooklyn.....	Jamaica and Brooklyn Road Co. (a)	6.40	11.25	990.00	3.00	1,500		1	2	150	2	13	4	8
415	Buffalo.....	Buffalo Street R. R. Co. (a).....	(c)	(c)	(c)	4.00	600	45	1	1	150	2	4	8	12
425	Ithaca.....	Ithaca Street R. R.	1.00	1.00	52.80	3.00			1	1	50	1	3		2
468	Rochester.....	Rochester Electric R'y Co.	4.70	9.00	633.60	4.00	400	200	1	2	240	2	9	7	12
481	Syracuse.....	Third Ward R'y Co.	3.00	3.98	283.18	7.50	600		1	2	90	2	8	3	6
488	Utica.....	Utica Belt Line Street R. R. Co. (a)	15.72	22.32	1,600.79	4.50	90	30	1	3	600	6	25	29	22
NORTH CAROLINA.															
489	Asheville.....	Asheville Street R'y Co.	4.19	4.21	222.29	10.50	200	50	1	2	150	2	8		6
OHIO.															
492	Akron.....	Akron Street R. R. Co. (a).....	10.00	12.13	996.16	8.00	800	45	1	3	450	6	21	6	14
495	Canton.....	Canton Street R'y Co. and Lakeside Street R. R. Co. (a)	8.25	9.25	769.56	5.00	700	40	1	2	300	4	9	6	9
496	Cincinnati.....	Cincinnati Incline Plane R'y Co. (a)	3.25	7.50	664.40	13.02	50	33	1	3	525	6	30	5	16
497	Cincinnati.....	Cincinnati Street R'y Co. (a).....	2.57	5.14	434.45	4.75	1,800	42	1	3	650	6	22	19	21
500	Cleveland.....	Broadway and Newburg Street R. R. Co. (a)	6.95	13.90	2,942.72	6.75	500	40	1	3	1,000	6	25	51	40
503	Cleveland.....	East Cleveland R. R. Co. (a).....	19.50	35.50	3,696.00	5.00	300		1	6	1,125	12	80	114	125
504	Cleveland.....	Lake View and East Cleveland Street R'y Co.	2.68	2.98	272.73	3.00	500						3	5	3
508	Dayton.....	Dayton and Soldiers' Home R. R. Co.	2.00	4.00	316.80	5.50	6,600		1	1	175	1	2	2	2
519	Lima.....	Lima Street Railway Motor and Power Co. (a)	4.00	4.50	316.80	8.00	800	35	1	1		3	7	3	5
521	Mansfield.....	Mansfield Electric Street R'y Co.	4.50	4.50	332.04	8.50	800	35	1	1	125	2	5		5
523	Newark.....	Newark and Granville Electric Street R'y Co.	3.00	3.00	184.80	3.00	400	50	1	1	125	1	1	2	2
525	Piqua.....	Piqua Street R'y Co.	4.00	4.00	251.33	4.50	1,600	50	1	1	100	1	6	2	5
526	Salem.....	Salem Electric R'y Co.	2.42	2.75	204.60	5.50	1,950	45				1	3		3
529	Steubenville.....	Steubenville Street R'y Co.	2.50	2.50	189.20	8.00	300		1	1	135	1	6		4
OREGON.															
536	Portland.....	Metropolitan R'y Co.	4.25	7.00	369.60	8.50	1,000	48	1	2	300	4	13	2	5
543	Salem.....	Capital City R'y Co.	2.00	2.20	116.16	2.00	200	73	1	1	83	1	2		2
PENNSYLVANIA.															
550	Easton.....	Pennsylvania Motor Co.	2.38	2.47	162.13	9.00	1,400	50	1	1	225	3	6		4
551	Erie.....	Erie Electric Motor Co. (a).....	13.12	15.00	1,372.80	9.00	330	48	1	3	450	6	25		19
552	Harrisburg.....	East Harrisburg Passenger R'y Co. (a)	5.00	5.22	447.67	6.50	1,200		1	1	80	2	12	4	6
566	Philadelphia.....	Lehigh Avenue R'y Co.	3.00	6.00	496.32	5.50	350	35	1	1	100	1	6		3
582	Pittsburg.....	Federal Street and Pleasant Valley Passenger R'y Co. (a)	11.71	16.35	1,614.62	12.50	7,920	30	1	3	1,050	8	47		32

a Electricity substituted for other power.

b 1.17 miles operated by animal power, for which no report is made, not included.

c Statistics furnished by Buffalo East Side Street R'y Co., owner under animal power; balance of information furnished by Buffalo Street R. R. Co., who furnish equipment.

STREET RAILWAYS.

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TABLE 2.—DESCRIPTION OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH IN MILES—		Total weight of rail, estimated in tons of 2,000 pounds.	STEEPEST GRADE.		Radius of sharpest curve in feet.	Number of power stations.	ENGINES.		Number of dynamos.	NUMBER OF PASSENGER CARS.		
			Of line.	Of all tracks, including sidings.		Per cent of rise.	Length in feet.			No.	Total indicated horse power.		Motor.	Tow.	Average operated at once.
PENNSYLVANIA—continued.															
591	Pittsburg	Pittsburg, Knoxville and Saint Clair Street R'y Co.	2.50	2.50	176.00	15.48	.....	34	1	2	380	4	9	4	2
595	Pittsburg	Second Avenue Passenger R'y Co. (a)	4.50	8.50	777.92	7.00	1,100	35	1	3	300	3	15	3	14
597	Pittsburg	Suburban Rapid Transit Street R'y Co.	2.25	2.50	228.80	8.50	300	140	.....	.....	.....	.....	4	2	2
599	Reading	East Reading R. R. Co	3.00	3.19	262.93	9.81	1,000	.....	1	3	.....	3	6	.....	3
602	Scranton	People's Street R'y Co. (a).....	15.00	18.00	1,415.04	10.00	350	.....	1	4	500	8	23	11	18
604	Sunbury	Sunbury and Northumberland Street R'y Co.	3.30	3.80	303.80	4.50	300	50	1	2	200	2	3	.....	2
607	Wilkesbarre ...	Wilkesbarre and Suburban Street R'y Co.	6.00	6.17	518.85	7.00	450	30	1	2	120	2	5	.....	3
608	Wilkesbarre ...	Wilkesbarre and West Side R'y Co.	3.33	3.37	287.66	5.50	50	80	1	2	80	1	3	2	3
RHODE ISLAND.															
611	Newport	Newport Street R'y Co.	3.89	4.17	330.26	9.00	100	38	.....	.....	.....	.....	8	7	.....
SOUTH DAKOTA.															
625	Sioux Falls.....	South Dakota Rapid Transit R'y Co.	7.37	7.41	466.27	6.00	300	45	1	1	100	1	3	2	2
TENNESSEE.															
629	Chattanooga ...	Chattanooga Electric Street R. R. Co. (a)	11.11	17.13	1,180.27	8.75	360	45	1	3	300	32	18	.....	10
641	Nashville	United Electric R'y (a)	29.27	40.00	2,112.00	9.00	500	35	1	9	1,075	9	60	12	50
TEXAS.															
646	Fort Worth	Fort Worth Land and Street R'y Co. (a)	10.50	10.50	480.48	6.00	30	.....	1	2	300	3	15	2	10
647	Fort Worth	North Side R. R. Co. (a).....	12.50	12.50	660.00	7.00	1,500	.....	1	1	350	3	15	6	12
652	Laredo	Laredo Improvement Co. (St. R'y Div.)	4.25	4.50	198.00	4.00	500	33	1	1	80	1	6	.....	5
657	Sherman	College Park Electric Belt Line...	4.50	4.50	198.00	4.50	300	.....	1	1	100	1	5	.....	4
UTAH.															
663	Salt Lake city..	Salt Lake City R. R. Co. (a).....	20.00	25.00	1,452.00	7.50	1,320	45	1	2	480	4	40	10	25
VIRGINIA.															
667	Danville	Danville Street Car Co. (a).....	2.00	2.00	133.76	7.50	900	.....	1	1	100	1	6	.....	4
674	Richmond	Richmond City Railway and Electric Co. (a)	15.00	25.00	1,980.00	12.00	220	.....	1	4	500	7	50	.....	35
WASHINGTON.															
680	Seattle	Seattle Electric Railway and Power Co. (a)	11.60	14.30	1,009.71	8.00	1,050	45	1	2	250	4	16	.....	8
681	Spokane.....	Ross Park Street R'y Co.	3.79	7.58	400.22	4.25	350	27	1	.....	225	2	6	.....	6
WEST VIRGINIA.															
686	Huntington	Huntington Electric Light and Street R'y Co.	3.25	3.33	146.66	4.50	500	.....	1	2	230	1	2	3	3
690	Wheeling	Wheeling R'y Co	10.00	11.50	1,012.00	8.00	150	35	1	2	160	3	21	5	.....
WISCONSIN.															
691	Appleton.....	Appleton Electric Street R'y Co..	3.50	3.50	206.36	8.00	150	.....	1	.....	.....	1	5	.....	4
692	Eau Claire.....	Eau Claire Street Railway Light and Power Co. (a)	4.50	6.00	411.84	6.00	400	.....	1	.....	.....	1	6	.....	5
700	Milwaukee.....	Milwaukee Electric R'y Co	6.00	12.00	950.40	10.00	411	30	1	1	250	3	12	.....	10
701	Milwaukee.....	West Side R. R. Co. (a).....	9.00	18.00	1,642.08	5.00	1,000	40	1	1	250	4	30	12	19
705	Superior	Douglas County Street R'y Co. (a)	5.43	6.00	369.60	4.00	200	55	1	2	250	2	5	3	7

a Electricity substituted for other power.

TABLE 2.—DESCRIPTION OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

CABLE RAILWAYS.

No.	STATES AND CITIES.	Name of road.	LENGTH IN MILES—		Total weight of rail, estimated in tons of 2,000 pounds.	STEEPEST GRADE.		CURVES.		Number of power stations.	ENGINES.		CABLES.		NUMBER OF PASSENGER CARS.		
			Of line.	Of all tracks, including sidings.		Per cent of rise.	Length in feet.	No.	Radius of sharp curve in feet.		No.	Total indicated horse power.	No.	Total length in miles.	Grip.	Trail.	Average operated at once.
CALIFORNIA.																	
31	Los Angeles ..	Pacific R'y Co. (a)	10.28	20.55	1,446.72	15.50	150	29	.....	1	3	2,100.00	7	22.14	50	51	66
33	Los Angeles ..	Second Street Cable R. R. Co.	1.29	1.35	38.02	18.00	235	2	100	1	1	57.00	1	2.65	5	4	6
34	Los Angeles ..	Temple Street Cable R'y Co.	3.00	5.00	209.44	12.00	225	4	120	1	1	84.86	2	6.18	10	10	7
38	Oakland	Oakland R. R. Co. (a)	2.72	5.44	382.98	2.15	200	1	70	1	2	200.00	1	5.46	12	.....	10
58	San Francisco.	California Street Cable R. R. Co.	2.49	4.98	394.42	20.00	413	.....	.....	1	2	300.00	2	3.30	25	25	14
61	San Francisco.	Ferris and Cliff House R'y Co.	8.86	10.10	711.04	80.00	413	18	.....	1	2	425.00	5	12.49	58	8	48
62	San Francisco.	Geary Street, Park and Ocean R. R. Co.	2.40	4.80	337.92	9.20	413	.....	.....	1	1	150.00	2	5.11	26	30	26
63	San Francisco.	Market Street Cable R'y Co. (a)	12.40	25.03	1,584.00	18.50	228	11	70	3	8	2,300.00	8	25.00	168	.....	80
65	San Francisco.	Omnibus Cable Co. (a)	11.75	23.50	2,274.80	.....	.....	16	.....	2	8	1,400.00	7	.....	172	.....	80
67	San Francisco.	Presidio and Ferris R. R. Co.	2.13	4.26	262.41	41.00	600	1	65	1	1	220.50	2	4.26	18	20	10
68	San Francisco.	Sutter Street R'y Co. (a) ...	5.75	11.50	910.80	10.40	412	4	45	1	4	500.00	4	11.46	113	76	50
COLORADO.																	
81	Denver	Denver City Cable R'y Co. (a)	13.00	25.00	2,640.00	12.00	200	8	55	1	2	750.00	5	25.76	52	102	84
83	Denver	Denver Tramway Co.....	8.50	17.00	1,047.20	6.00	1,000	24	41	1	1	800.00	4	17.05	102	.....	40
DIST. COLUMBIA.																	
112	Washington ..	Washington and Georgetown R. R. Co. (a)	3.70	7.40	1,041.92	6.00	400	1	60	1	2	250.00	1	6.30	24	64	40
ILLINOIS.																	
145	Chicago	North Chicago Street R. R. Co. (a)	8.50	17.00	1,989.68	10.00	1,300	31	40	3	4	1,450.00	8	15.22	116	380	118
147	Chicago	West Chicago Street R. R. Co. (a)	8.75	17.50	2,402.40	7.30	598	28	50	3	7	6,000.00	7	18.53	125	250	.....
IOWA.																	
197	Dubuque	Eleventh Street Elevated R. R.	0.06	0.12	9.93	150.00	325	1	.....	1	2	25.00	2	0.12	2	.....	2
KANSAS.																	
212	Kansas city ..	Interstate Consolidated Rapid Transit R'y Co.	0.69	1.38	.....	8.80	850	5	40	1	1	350.00	1	1.53	6	7	8
MICHIGAN.																	
291	Grand Rapids.	Valley City Street and Cable R'y Co.	7.75	11.61	919.51	10.00	1,500	36	40	2	4	1,200.00	3	13.45	12	29	36
MINNESOTA.																	
304	Saint Paul....	Saint Paul City R'y Co. (a).	5.01	10.02	952.30	16.00	500	11	100	2	4	2,000.00	2	10.06	30	66	38
MISSOURI.																	
315	Kansas city ..	Grand Avenue R'y Co. (a).	8.57	17.15	1,690.30	4.00	1,600	16	45	2	2	1,250.00	4	17.78	81	.....	36
317	Kansas city ..	Kansas City Cable R'y Co.	10.15	20.40	1,947.79	18.53	1,000	10	38	2	4	1,300.00	5	22.22	71	119	77
318	Kansas city ..	Metropolitan Street R'y Co. (a)	11.69	23.38	2,304.33	13.94	566	51	40	3	11	3,400.00	6	24.64	76	141	100
321	Kansas city ..	People's Cable R'y Co.....	3.40	6.80	700.13	.....	.....	1	.....	1	1	.....	2	6.33	11	9	18
322	Kansas city ..	Union R'y Co.....	2.51	2.51	229.72	.....	.....	.....	.....	1	2	500.00	2	5.68	10	10	15
334	Saint Louis...	Missouri R. R. Co. (a)	4.50	9.50	1,070.08	3.84	1,180	8	80	1	2	1,000.00	2	9.11	44	127	82
337	Saint Louis...	People's R'y Co. (a)	5.00	10.00	1,372.80	7.00	300	12	55	1	1	500.00	2	10.23	40	74	48
338	Saint Louis...	Saint Louis and Suburban R'y.	3.20	6.40	585.73	4.00	2,250	26	32	1	2	1,500.00	2	6.63	26	47	40
MONTANA.																	
346	Butte city....	Butte City Street R'y Co ..	1.50	3.00	184.80	17.00	1,000	6	.....	1	1	100.00	1	3.00	4	4	8
NEBRASKA.																	
361	Omaha.....	Omaha Street R'y Co.....	4.50	8.92	918.40	9.00	1,000	10	50	1	1	600.00	2	10.98	29	27	20
NEW JERSEY.																	
373	Jersey city...	North Hudson County R'y Co. (a)	1.40	2.25	265.32	5.00	1,500	2	500	1	2	1,000.00	1	2.46	14	.....	6
NEW YORK.																	
453	New York.....	New York and Brooklyn Bridge.	1.14	2.28	208.67	3.77	463	1	100	1	3	1,050.00	1	2.27	60	.....	50
460	New York.....	Third Avenue R. R. Co. (a).	5.75	11.50	1,598.96	8.00	1,200	3	75	1	2	700.00	4	23.00	77	48	56
OHIO.																	
497	Cincinnati....	Cincinnati Street R'y Co. (a)	4.05	7.47	683.65	9.00	200	29	37	1	2	450.00	2	7.70	45	16	27
498	Cincinnati....	Mount Adams and Eden Park Inclined R'y. (a)	4.00	8.50	777.92	6.00	5,280	33	45	1	2	900.00	2	8.11	26	26	40
499	Cincinnati....	Mount Auburn Cable R'y Co.	4.51	8.51	838.75	11.00	2,400	11	45	1	2	700.00	3	8.50	22	22	26
OREGON.																	
540	Portland.....	Portland Cable R'y Co.....	5.30	5.30	354.46	20.00	1,100	3		1	2	500.00	2	5.30	12		12

a Cable substituted for other power.

STREET RAILWAYS.

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TABLE 2.—DESCRIPTION OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

CABLE RAILWAYS—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH IN MILES—		Total weight of rail, estimated in tons of 2,000 pounds.	STEEPEST GRADE.		CURVES.		Number of power stations.	ENGINES.		CABLES.		NUMBER OF PASSENGER CARS.		
			Of line.	Of all tracks, including sidings.		Per cent of rise.	Length in feet.	No.	Radius of sharpest curve in feet.		No.	Total indicated horse power.	No.	Total length in miles.	Grip.	Trail.	Average operated at once.
PENNSYLVANIA.																	
544	Allegheny	Troy Hill Inclined Plane and Bridge Co.	0.08	0.15	19.01	57.80	400			1	2	160.00	1				2
580	Pittsburg	Citizens' Traction Co. (a)	6.00	12.00	1,372.80	7.50	1,200	16	28	1	3	1,500.00	3	12.37	60		50
581	Pittsburg	Duquesne Inclined Plane Co.	0.15	0.30	21.12	57.80	793			1	2	180.00	3	0.17			2
583	Pittsburg	Fort Pitt Inclined Plane R'y Co.	0.07	0.14	12.32	100.00	350			1	2	125.00	6	0.40	2		2
584	Pittsburg	Monongahela Inclined Plane Co.	0.24	0.48	42.66	70.28	640			1	2	200.00	2		4		4
585	Pittsburg	Mount Oliver Incline R'y Co.	0.30	0.61	48.31	18.00	1,600			1	1	80.00	3	1.03	2		2
586	Pittsburg	Penn Inclined Plane Co.	0.16	0.32		83.91	857			1	2	500.00	5	0.19			2
592	Pittsburg	Pittsburg Traction Co. (a)	5.50	11.00	1,290.63	70.00	500	40	27	2	3	1,175.00	3	11.00	46	10	32
594	Pittsburg	Saint Clair Inclined Plane Co.	0.39	0.78	76.88	22.50	2,060			1	2	150.00	3	1.23	2		2
RHODE ISLAND.																	
613	Providence	Providence Cable Tramway Co.	3.00	3.15	203.90	15.00	350	15	39	1	"		1	3.21	8	16	6
WASHINGTON.																	
677	Seattle	Front Street Cable R'y Co.	1.59	3.18	237.60	18.00	400	5	100	1	1	300.00	1	3.00	7	8	7
678	Seattle	Lake Washington Cable R. R. Co.	4.85	4.85	136.58	16.66	1,100	4	48	1	1	150.00	1	4.90	12	12	9
679	Seattle	Madison Street Cable R'y Co.	1.75	7.00	554.40	20.00	300	1	100	1	1	500.00	2	3.50	16		16
683	Spokane	Spokane Cable R'y Co.	3.00	3.25	114.40	11.00	1,600	2	75	1			2	13.07	7	12	6

a Cable substituted for other power.

b 2.50 miles leased line reported by lessor company.

c 3.50 built, but only 1.75 operated at date of report.

STATISTICS OF TRANSPORTATION.

TABLE 2.—DESCRIPTION OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

STEAM PASSENGER RAILWAYS.

No.	STATES AND CITIES.	Name of road.	LENGTH IN MILES—		Total weight of rail, estimated in tons of 2,000 pounds.	Number of stations.	Number of dummy engines.	Number of locomotives.	NUMBER OF PASSENGER CARS.		Number of other cars.
			Of line.	Of all tracks, including sidings.					Total.	Average operated at once.	
ALABAMA.											
2	Birmingham	Birmingham, Powderly and Bessemer Street R. R. Co	12.50	13.50	831.60	28	3	.....	8	4	7
3	Birmingham	Birmingham Railway and Electric Co	29.75	32.50	2,344.32	59	15	.....	38	19	7
4	Birmingham	East Birmingham Land and R. R. Co	7.00	10.00	528.00	17	3	.....	10	5	2
5	Birmingham	Highland Avenue and Belt R. R. Co	5.86	8.57	615.14	.....	6	.....	11	5	.....
6	Birmingham	North Birmingham Street R. R. Co	3.80	5.30	326.48	27	4	.....	8	4	3
8	Gadsden	Gadsden and Attalla Union R'y Co	7.25	7.25	490.60	.....	2	.....	3	2	4
12	Sheffield	Sheffield Street R'y Co	4.40	4.60	267.17	.....	2	.....	2	1	1
14	Tuscaloosa	Tuscaloosa Belt R'y Co	2.25	2.50	154.00	.....	1	.....	1	1	.....
ARKANSAS.											
19	Little Rock	City Electric Street R'y Co	3.25	3.25	200.20	.....	2	.....	4	2	.....
21	Searcy	Searcy and West Point R. R. Co	5.00	5.00	308.00	3	.....	2	3	1	2
CALIFORNIA.											
26	Los Angeles	Cahuenga Valley R. R. Co	6.06	6.16	252.67	4	2	.....	3	1	2
32	Los Angeles	San Gabriel Valley Rapid Transit R'y	19.70	20.70	1,366.20	21	1	2	7	2	11
38	Oakland	Oakland R. R. Co	2.32	2.36	207.68	4	1	1	2	2	.....
46	Pomona	Pomona Street R. R. Co	2.88	2.88	126.50	2	1	.....	1	1	.....
54	San Bernardino	San Bernardino and Redlands R. R. Co	10.50	11.00	484.00	.....	2	.....	3	2	3
56	San Bernardino	Southern California Motor Road Co	12.00	13.00	915.20	4	3	.....	7	5	.....
61	San Francisco	Ferris and Cliff House R'y Co	6.03	6.57	520.34	10	.....	8	16	8	.....
62	San Francisco	Geary Street Park and Ocean R. R. Co	1.40	2.80	172.48	.....	4	.....	10	3	2
63	San Francisco	Market Street Cable R'y Co	3.95	8.57	565.62	.....	7	.....	16	3	6
67	San Francisco	Presidio and Ferris R. R. Co	2.25	4.50	277.20	.....	5	.....	5	2	.....
COLORADO.											
80	Denver	Denver and Berkeley Park Rapid Transit Co	5.00	6.00	316.80	2	6	.....	13	5	1
FLORIDA.											
119	Tampa	Tampa Street R'y Co	3.40	3.40	149.60	.....	3	.....	4	2	4
GEORGIA.											
128	Columbus	Columbus R. R. Co	11.00	11.00	774.40	36	3	.....	6	4	4
130	Lithia Springs	Salt Springs and Bowden Lithia R. R.	1.38	1.50	.....	2	2	.....	2	1	1
131	Milledgeville	Milledgeville and Asylum Dummy R. R. Co	5.50	5.50	290.40	.....	2	.....	2	2	2
133	Rome	Rome Street R'y Co	6.00	6.75	594.00	.....	3	.....	5	2	1
134	Savannah	City and Suburban R'y Co	12.00	12.00	739.20	8	3	.....	10	3	.....
ILLINOIS.											
137	Alton	Alton Improvement Association	3.13	3.13	191.66	.....	2	.....	2	1	.....
INDIANA.											
168	Evansville	Evansville Suburban and Newburg R'y Co	10.90	12.50	880.00	18	3	.....	12	4	23
179	Muncie	Muncie Street R'y Co	5.00	5.50	338.80	.....	3	.....	6	3	.....
IOWA.											
188	Cedar Rapids	Cedar Rapids and Marion R'y	5.50	6.00	352.00	5	2	.....	9	5	3
190	Council Bluffs	Lake Manawa R'y Co	4.00	4.50	277.20	.....	5	.....	9	4	4
194	Des Moines	Des Moines Belt Line R'y Co	4.50	4.60	242.88	.....	2	.....	6	2	1
204	Sioux city	Sioux City and Highland Park R'y Co	4.75	5.00	294.80	8	1	2	5	2	6
KANSAS.											
212	Kansas city	Interstate Consolidated Rapid Transit R'y Co	7.20	14.40	1,434.05	37	17	.....	35	23	2
215	Leavenworth	Leavenworth Rapid Transit R'y Co	5.50	8.30	818.05	3	3	.....	9	2	.....
220	Topeka	Topeka Belt R'y Co	3.80	3.80	300.96	8	2	.....	11	1	.....
LOUISIANA.											
236	New Orleans	New Orleans, Spanish Fort and Lake R. R. Co	6.70	13.40	1,138.72	2	5	.....	30	3	.....
MASSACHUSETTS.											
276	Onset	Onset Street R'y Co	1.00	1.50	92.40	.....	2	.....	5	2	1
MINNESOTA.											
301	Minneapolis	Minneapolis, Lyndale and Minnetonka R'y Co	18.00	23.00	1,619.20	5	13	2	56	25	4
MISSOURI.											
314	Kansas city	East Fifth Street R'y Co	2.25	4.50	443.52	.....	5	.....	6	3	.....
315	Kansas city	Grand Avenue R'y Co	1.81	1.87	131.05	.....	2	.....	2	2	.....
316	Kansas city	Kansas City and Independence Rapid Transit R'y	8.16	16.32	1,148.93	13	6	.....	18	6	9
338	Saint Louis	Saint Louis and Suburban R'y	15.71	18.96	1,267.20	34	1	6	27	5	17
MONTANA.											
346	Butte city	Butte City Street R'y Co	7.00	7.25	446.60	2	5	.....	7	4	.....
347	Helena	Helena, Hot Springs and Smelter R. R. Co	3.50	3.50	271.04	.....	3	.....	5	3	.....
NEW JERSEY.											
373	Jersey city	North Hudson County R'y Co	2.50	5.00	492.80	4	4		16	16	

STREET RAILWAYS.

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TABLE 2.—DESCRIPTION OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

STEAM PASSENGER RAILWAYS—Continued

No.	STATES AND CITIES.	Name of road.	LENGTH IN MILES—		Total weight of rail, estimated in tons of 2,000 pounds.	Number of stations.	Number of dummy engines.	Number of locomotives.	NUMBER OF PASSENGER CARS.		Number of other cars.
			Of line.	Of all tracks, including sidings.					Total.	Average operated at once.	
NEW YORK.											
399	Brooklyn	Brooklyn Elevated R. R. Co.	17.93	36.59	3,863.90			76	210	196	12
403	Brooklyn	Fulton Elevated R. R. Co.	2.95	5.90	726.88	6		12	50		
407	Brooklyn	Kings County Elevated R'y Co.	26.14	12.28	1,296.77	40		30	80	74	8
411	Brooklyn	Sea View R. R. Co.	1.00	2.12	186.56	3		7	7	7	
419	Elmira	Elmira and Horseheads R'y Co.	5.50	5.50	561.44	2	2		2	1	
447	New York	Jerome Park R'y Co.	1.08	2.75	256.52	1	(b)		(b)	(b)	(b)
449	New York	Manhattan R'y Co.	32.40	90.10	10,326.28	178		291	921	800	27
459	New York	Suburban Rapid Transit Co.	3.22	7.17	757.15	11		13	26	26	
OREGON.											
538	Portland	Mount Tabor Street R. R. Co.	2.65	2.65	139.92		1		3	1	4
539	Portland	Portland and Vancouver R'y Co.	6.60	7.00	360.80	6	3		6	2	
PENNSYLVANIA.											
600	Reading	Mount Penn Gravity R. R. Co.	27.72	7.72	611.42	6		3	9	2	1
SOUTH DAKOTA.											
626	Watertown	Watertown and Lake Kameska R'y Co.	5.65	5.65	298.32	1	1	1	2	1	2
TENNESSEE.											
635	Knoxville	Fountain Head R. R. Co.	5.75	6.00	475.20		2		6	3	4
637	Memphis	East End Street R'y Co.	5.00	6.00	380.16	20	4		20	4	1
639	Nashville	Nashville and West Nashville R. R. Co.	6.00	7.50	475.20		4		8	4	
640	Nashville	Overland R'y Co.	9.33	9.81	794.55	4	6		12	6	1
VIRGINIA.											
675	Roanoke	Roanoke Street R'y Co.	11.00	11.00	836.00	4	2		5	3	1
WASHINGTON.											
682	Spokane	Spokane and Montrose Motor R. R. Co.	3.50	3.52	154.70	3	2		4	1	5
WEST VIRGINIA.											
689	Wheeling	Wheeling and Elm Grove R. R.	8.00	8.00	422.40	6	4		12	4	
WISCONSIN.											
698	Milwaukee	Milwaukee and Whitefish Bay R'y Co.	5.33	5.33	375.47	12	2		7	4	

a 2.95 miles leased line reported by lessor company not included.
b Equipment owned by New York Central and Hudson River R. R.

c 5 miles gravity and 2.72 steam.

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STATISTICS OF TRANSPORTATION.

TABLE 2.—DESCRIPTION OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

RAILWAYS USING MORE THAN ONE KIND OF MOTIVE POWER, THE STATISTICS FOR THE SEVERAL KINDS NOT BEING SEPARABLE.

No.	STATES AND CITIES.	Name of road.	Power used.	LENGTH IN MILES—		Total weight of rail, estimated in tons of 2,000 pounds.	STEEPEST GRADE.		Radius of sharp-est curve in feet.
				Of line.	Of all tracks, including sidings.		Per cent of rise.	Length in feet.	
	ALABAMA.								
10	Montgomery	Montgomery Terminal and Street R'y Co	Animal and steam	8.50	10.00	645.34			
11	Selma	Selma Street R. R. Co	Animal and steam	7.00	7.50	316.80			
	CALIFORNIA.								
55	San Bernardino....	San Bernardino, Arrowhead and Waterman R. R. Co ..	Animal and steam	4.50	5.00	325.60			
	GEORGIA.								
124	Atlanta	Metropolitan Street R. R. Co	Animal and steam	10.00	11.00	677.60			
	ILLINOIS.								
142	Chicago	Chicago City R'y Co	Animal and cable.....	76.48	152.95	18,697.78			50
	IOWA.								
195	Des Moines.....	Des Moines Street R. R. Co	Animal and electric ..	15.74	24.21	1,882.83	10.50	200	35
	LOUISIANA.								
235	New Orleans	New Orleans City and Lake R. R. Co	Animal and steam	40.00	60.00	4,699.20			
	MASSACHUSETTS.								
259	Boston	West End Street R'y Co	Animal and electric ..	134.61	240.47	24,818.44			
	MICHIGAN.								
290	Grand Rapids	Street R'y Co. of Grand Rapids	Animal and steam	13.50	20.75	1,430.44			
	MISSOURI.								
329	Saint Louis	Citizens' R'y Co	Animal and cable.....	8.50	15.00	1,663.20	2.00	300	50
333	Saint Louis	Lindell R'y Co	Animal and electric ..	5.50	11.00	871.20			
	NEBRASKA.								
355	Lincoln	Capital Heights Street R'y Co	Animal and electric ..	3.25	3.50	170.72			
	NEW YORK.								
384	Albany	Albany R'y	Animal and electric ..	10.12	14.23	1,127.02			
486	Troy	Troy and Lansingburg R. R. Co	Animal and electric ..	13.31	23.77	2,055.24			
	OHIO.								
501	Cleveland.....	Brooklyn Street R. R. Co. and South Side Street R. R. Co.	Animal and electric ..	16.00	32.00	3,386.24	6.00	300	40
	PENNSYLVANIA.								
564	Philadelphia	Frankford and Southwark Passenger R. R. Co	Animal and steam	18.00	23.50	1,951.84			
572	Philadelphia	Philadelphia Traction Co	Animal and cable.....	104.04	138.08	12,187.70	10.02	148	25
579	Pittsburg	Central Traction Co	Animal and cable.....	3.02	4.91	522.82	13.00	322	30

a 11.17 miles leased line reported by lessor companies under animal power.

STREET RAILWAYS.

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TABLE 2.—DESCRIPTION OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

RAILWAYS USING MORE THAN ONE KIND OF MOTIVE POWER, ETC.—Continued.

No.	STATES AND CITIES.	Name of road.	Number of horses and mules.	ENGINES.		Number of dynamos.	CABLES.		Number of dummy engines.	Number of locomotives.	NUMBER OF PASSENGER CARS.	
				No.	Total indicated horse power.		No.	Total length in miles.			Total.	Average operated at once.
ALABAMA.												
10	Montgomery	Montgomery Terminal and Street R'y Co	135							1	24	15
11	Selma	Selma Street R. R. Co	8								3	2
CALIFORNIA.												
55	San Bernardino ..	San Bernardino, Arrowhead and Waterman R. R. Co ..							1		4	1
GEORGIA.												
124	Atlanta	Metropolitan Street R. R. Co							8		16	8
ILLINOIS.												
142	Chicago	Chicago City R'y Co		10	6,800		13	37.44			1,250	500
IOWA.												
185	Des Moines	Des Moines Street R. R. Co		2	500	8					42	24
LOUISIANA.												
235	New Orleans	New Orleans City and Lake R. R. Co	765						7		212	150
MASSACHUSETTS.												
259	Boston	West End Street R'y Co	27,579								2,031	2900
MICHIGAN.												
290	Grand Rapids	Street R'y Co. of Grand Rapids	373						3		103	40
MISSOURI.												
329	Saint Louis	Citizens' R'y Co		2	500		4	13.11			170	94
333	Saint Louis	Lindell R'y Co	539								110	62
NEBRASKA.												
355	Lincoln	Capital Heights Street R'y Co	40								6	4
NEW YORK.												
384	Albany	Albany R'y	171								66	23
486	Troy	Troy and Lansingburg R. R. Co	321								106	35
OHIO.												
501	Cleveland	Brooklyn Street R. R. Co. and South Side Street R. R. Co.	75	15	1,800	15					152	85
PENNSYLVANIA.												
564	Philadelphia	Frankford and Southwark Passenger R. R. Co	750								92	86
572	Philadelphia	Philadelphia Traction Co	2,911	6	1,500		6	21.94			522	443
579	Pittsburg	Central Traction Co		1	500		2	4.92			16	14

a Includes equipment operated over leased line.

STATISTICS OF TRANSPORTATION.

TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR.

RAILWAYS OPERATED BY ANIMAL POWER.

No.	STATES AND CITIES.	Name of road,	Total cost of road and equip- ment.	Miles of line owned.	COST OF CONSTRUCTION AND REAL ESTATE.		
					Total cost of construction and real estate.		Roadbed and track.
					For all line owned.	Per mile owned.	
ALABAMA.							
3	Birmingham	Birmingham Railway and Electric Co.....	\$2,428,381.64	12.50	\$2,370,088.15	\$189,607.05	\$182,266.76
7	Decatur	Decatur Street R'y Co.....	34,900.00	4.00	28,500.00	7,125.00	25,000.00
ARKANSAS.							
15	Fort Smith	Fort Smith Street R'y Co.....	07,000.64	8.44	84,750.64	10,041.55	62,550.64
16	Helena	Citizens' Street R'y Co.....	26,760.00	2.00	21,500.00	10,750.00	19,000.00
17	Hot Springs	Hot Springs Street R. R. Co.....	108,900.00	7.90	92,000.00	11,645.57	78,900.00
18	Little Rock	Capital Street R'y Co.....	630,000.00	12.25	565,000.00	46,122.45	440,000.00
20	Pine Bluff	Citizens' Street R'y Co.....	58,832.10	6.28	42,773.65	6,811.09	
22	Texarkana.....	Texarkana Street R'y Co.....	48,500.00	4.00	40,000.00	10,000.00	30,000.00
CALIFORNIA.							
23	Anaheim	Anaheim Street Car Co.....	8,409.68	1.75	6,742.68	3,852.96	6,742.68
24	Fresno	Fresno R. R. Co.....	26,640.00	1.50	21,500.00	14,333.33	18,000.00
27	Los Angeles	Elysian Park Street R'y Co.....	3,000.00	3.50	2,500.00	714.29	2,500.00
29	Los Angeles	Main Street and Agricultural Park R. R. Co.....	169,318.21	5.86	121,031.21	20,653.79	106,821.94
35	Marysville.....	Marysville and Yuba City Street R. R. Co.....	20,000.00	2.11	15,078.00	7,145.97	10,778.00
36	Oakland	Alameda, Oakland and Piedmont R. R. Co.....	52,075.00	4.00	38,500.00	9,625.00	35,000.00
37	Oakland	Oakland, Brooklyn and Fruitvale R. R. Co.....	64,361.22	1.88	49,476.22	26,317.14	36,876.15
39	Ontario	Ontario and San Antonio Heights R. R. Co.....	54,150.00	6.25	52,000.00	8,320.00	52,000.00
40	Pasadena	Alhambra and Pasadena Street R'y Co.....	18,000.00	4.50	14,600.00	3,244.44	12,400.00
41	Pasadena	City R'y Co.....	31,550.00	5.25	23,600.00	4,495.24	21,000.00
42	Pasadena	Highland R. R. Co.....	40,000.00	5.00	35,000.00	7,000.00	
43	Pasadena	Pasadena Street R. R. Co.....	28,250.00	3.50	22,200.00	6,342.86	20,000.00
44	Pasadena	West Pasadena R'y Co.....	21,020.00	3.25	19,500.00	6,000.00	16,250.00
45	Pomona	Orange Grove Street R. R. Co.....	18,000.00	3.75	15,330.00	4,088.00	14,830.00
47	Pomona	San Antonio and Holt Avenue R. R. Co.....	11,324.84	2.04	8,351.89	4,094.06	
48	Redlands	Redlands Street R'y Co.....	13,200.95	3.13	11,709.45	3,741.04	10,173.20
49	Riverside	Hall's Addition Street R'y Co.....	5,149.00	1.35	3,891.00	2,882.22	3,891.00
50	Riverside	Riverside and Arlington R'y Co.....	43,911.73	7.22	38,840.53	5,379.57	37,591.67
51	Riverside	Riverside R'y Co.....	25,000.00	3.00	22,000.00	7,333.33	22,000.00
53	San Bernardino	City Street R. R. Co.....	19,720.15	2.25	8,049.01	3,844.00	549.75
56	San Bernardino	Southern California Motor Road Co.....	40,000.00	3.00	30,000.00	10,000.00	
57	San Diego	San Diego Street Car Co.....	250,000.00	8.50	166,000.00	19,529.41	
59	San Francisco	Central R. R. Co.....	493,035.04	5.88	422,017.07	71,771.61	211,472.63
60	San Francisco	City R. R. Co.....	320,063.54	4.84	236,787.83	48,923.11	167,071.52
64	San Francisco	North Beach and Mission R. R. Co.....	594,500.00	8.00	471,000.00	58,875.00	390,000.00
66	San Francisco	Potrero and Bay View R. R. Co.....	331,299.53	1.57	310,136.15	197,538.95	268,136.15
69	San Jose	First Street and Willow Street R. R.....	39,500.00	3.75	30,000.00	8,000.00	20,000.00
70	San Jose	North Side Horse R. R. Co.....	15,100.00	2.25	11,500.00	5,111.11	9,500.00
72	San Luis Obispo	San Luis Street R'y Co.....	19,315.00	1.50	16,200.00	10,800.00	15,000.00
73	Santa Ana.....	Santa Ana, Orange and Tustin Street R'y Co.....	54,851.61	8.00	47,477.99	5,934.75	42,139.47
74	Santa Barbara.....	Santa Barbara and Citizens' Street R'y Co.....	27,051.38	6.00	21,651.38	3,608.56	
75	Santa Cruz.....	Pacific Avenue R. R. Co.....	26,581.20	2.08	20,580.00	9,894.23	17,280.00
76	Santa Rosa	South Side Street R'y Co.....	15,069.06	1.67	11,569.06	6,927.58	9,224.70
77	Stockton	Stockton Street R. R. Co.....	78,800.00	4.40	65,000.00	14,772.73	35,000.00
78	Woodland	Woodland Street R. R. Co.....	7,125.00	1.00	4,500.00	4,500.00	4,000.00
COLORADO.							
82	Denver	Denver City R'y Co.....	1,629,949.47	29.25	1,442,605.61	49,319.85	1,217,405.01
85	Pueblo	Pueblo City R'y Co.....	157,039.00	12.00	131,600.00	10,966.67	65,000.00
86	Trinidad.....	Trinidad Street R'y Co.....	50,000.00	2.50	43,300.00	17,320.00	25,000.00
CONNECTICUT.							
88	Bridgeport	Bridgeport Horse R. R. Co.....	184,755.22	6.50	131,666.52	20,256.39	78,210.33
89	Danbury	Danbury and Bethel Horse R'y Co.....	96,000.00	4.17	64,000.00	15,347.72	45,000.00
91	Middletown	Middletown Horse R. R. Co.....	40,000.00	3.75	31,000.00	8,266.67	
92	New Britain	New Britain Tramway Co.....	50,000.00		(a)		
93	New Haven	Fair Haven and Westville R. R. Co.....	300,000.00	7.00	200,000.00	28,571.43	
94	New Haven	New Haven and Centerville Horse R. R. Co.....	49,000.00	2.50	36,950.00	14,780.00	30,500.00
95	New Haven	New Haven and West Haven Horse R. R. Co.....	206,401.82	7.00	152,240.00	21,748.57	64,200.00
96	New Haven	State Street Horse R. R. Co.....	89,678.68	2.20	73,038.68	33,199.40	43,152.46
97	New Haven	Whitney Avenue Horse R'y Co.....	623,224.24	2.15	23,224.24	10,801.97	22,613.33
98	Norwalk	Norwalk Horse R'y Co.....	96,058.52	3.50	74,283.52	21,223.86	46,183.52
99	Norwich	Norwich Street R'y Co.....	60,000.00	8.50	43,300.00	5,094.12	39,300.00
100	Stamford	Stamford Street R. R. Co.....	32,200.00	3.50	22,000.00	6,285.71	17,500.00
101	Waterbury	Waterbury Horse R. R. Co.....	100,567.98	5.75	66,200.00	11,513.04	41,500.00
102	Westport	Westport and Saugatuck Horse R. R. Co.....	15,055.00	1.75	12,544.00	7,168.00	12,155.51
DELAWARE.							
103	Wilmington	Front and Union Street R'y Co.....	35,292.76	1.33	27,070.76	20,353.95	20,526.52
104	Wilmington	Wilmington City R'y Co.....	221,739.73	4.79	186,564.73	38,948.80	157,097.86
DIST. OF COLUMBIA.							
105	Washington	Anacostia and Potomac River R. R. Co.....	44,434.99	3.00	32,254.99	10,751.66	25,209.31
106	Washington	Brightwood R'y Co.....	612,707.08	2.00	12,707.08	6,353.54	
107	Washington	Capitol, North O Street and South Washington R'y Co.....	294,508.27	8.00	180,367.27	22,545.91	119,110.00
108	Washington	Columbia R'y Co.....	246,494.22	2.80	190,494.22	68,033.65	130,494.22
111	Washington	Metropolitan R. R. Co.....	769,651.53	9.72	566,003.53	58,230.82	333,125.00
112	Washington	Washington and Georgetown R. R. Co.....	974,720.44	7.00	761,749.14	108,821.81	399,027.23

a Not shown separately.

b Construction and real estate only.

STREET RAILWAYS.

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TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR.

RAILWAYS OPERATED BY ANIMAL POWER.

COST OF CONSTRUCTION AND REAL ESTATE—continued.				Miles of line operated.	COST OF EQUIPMENT.							No.
Right of way.	Land and buildings.	Acquisition of line not built by company.	Miscellaneous items of construction.		Total cost of equipment.		Passenger cars.	Other rolling stock.	Horses and mules.	Harness.	Miscellaneous items of equipment.	
					For all line operated.	Per mile operated.						
\$2,152,411.99	\$35,409.40 3,500.00			12.50 4.00	\$58,293.49 6,400.00	\$4,663.48 1,600.00	\$31,545.99 3,000.00		\$26,747.50 3,200.00	\$200.00		3 7
	22,200.00 2,500.00			8.44 2.00	22,250.00 5,260.00	2,636.26 2,630.00	13,750.00 3,200.00		8,000.00 1,620.00	150.00 120.00	\$350.00	15 16
10,000.00	13,100.00 115,000.00 10,000.00 10,000.00			7.90 12.25 6.28 4.00	16,900.00 65,000.00 16,058.45 8,500.00	2,139.24 5,306.12 2,557.08 2,125.00	6,500.00 35,000.00 2,557.08 6,000.00	2,500.00 3,000.00	7,000.00 25,000.00 4,513.07 2,500.00	900.00 2,000.00		17 18 20 22
			\$32,773.65								11,545.38	
				1.75 1.50 3.50 6.48 2.11	1,667.00 5,140.00 500.00 48,287.00 4,922.00	952.57 3,426.67 142.86 7,451.70 2,332.70	1,279.25 4,000.00 500.00 22,527.00 3,450.00		365.00 1,050.00	22.75 90.00		23 24 27 29 35
	3,500.00 14,209.27 4,800.00			4.00 1.88 6.25 4.50 5.25	13,575.00 14,885.00 2,150.00 3,400.00 7,950.00	3,393.75 7,917.55 344.00 755.56 1,514.29	10,000.00 9,458.00 1,500.00 2,100.00 2,300.00	500.00	2,875.00 5,427.00 600.00 1,200.00 2,000.00	200.00		36 37 39 40 41
	2,200.00 2,600.00							3,550.00				
			35,000.00	5.00 3.50 3.25 3.75 2.04	5,000.00 6,050.00 1,520.00 2,670.00 2,972.95	1,000.00 1,728.57 467.69 712.00 1,457.33		300.00	2,000.00 200.00 645.00	250.00 20.00 75.00	5,000.00	42 43 44 45 47
	1,536.25 1,248.86			3.13 1.35 7.22 3.00 2.25	1,491.50 1,258.00 5,071.20 3,000.00 11,071.14	476.52 931.85 702.38 1,000.00 4,920.51	886.50 917.00 3,506.85 2,500.00 6,740.58		530.00 325.00 1,410.00	75.00 16.00 154.35		48 49 50 51 53
18.80	8,080.46							250.00	3,714.05	366.51		
			30,000.00 166,000.00	3.00 8.50 6.18 5.12 8.00	10,000.00 84,000.00 71,017.97 83,275.71 123,500.00	3,333.33 9,882.35 11,491.58 16,264.79 15,437.50			23,416.50 27,489.50 60,000.00	900.47 2,295.45 3,500.00	10,000.00 84,000.00	56 57 59 60 64
	42,000.00 10,000.00 2,000.00 1,200.00 5,338.52			1.57 3.75 2.25 1.50 8.00	21,163.38 9,500.00 3,600.00 3,115.00 7,373.62	13,479.86 2,533.33 1,600.00 2,076.67 921.70	14,292.28 4,500.00 2,500.00 2,150.00 4,404.76	2,000.00	6,286.10 2,500.00 900.00 825.00 2,243.50	585.00 500.00 200.00 140.00 225.15	500.21	66 69 70 72 73
			21,651.38	6.00 2.08 1.67 4.40 1.00	5,400.00 6,001.20 3,500.00 13,800.00 2,625.00	900.00 2,885.19 2,095.81 3,136.36 2,625.00	4,000.00 3,600.00 3,105.00 11,000.00 2,200.00	150.00	1,200.00 2,051.20 345.00 2,400.00 375.00	200.00 200.00 50.00 400.00 50.00		74 75 76 77 78
2,000.00	1,300.00 2,344.36 30,000.00 500.00											
	225,200.60 66,600.00 18,300.00			29.25 12.00 2.50	187,343.86 25,439.00 6,700.00	6,404.92 2,119.92 2,680.00	99,047.92 15,000.00 3,200.00	12,490.30 350.00	67,898.70 8,900.00 3,000.00	7,906.94 1,189.00 500.00		82 85 86
	53,456.19 10,000.00			6.50 4.17 3.75	53,088.70 32,000.00 9,000.00	8,167.49 7,673.86 2,400.00	25,643.30 16,000.00 4,500.00		26,845.40 13,500.00 4,000.00	600.00 500.00 500.00		88 89 91
9,000.00			31,000.00									
				(a)								
			200,000.00	7.00	100,000.00	14,285.71					100,000.00	93
	6,450.00 88,040.00 12,553.22 610.91 28,100.00			2.50 7.00 4.35	12,050.00 54,161.82 16,640.00	4,820.00 7,737.40 3,825.29	4,500.00 19,834.00 7,000.00	250.00 200.00	7,000.00 22,820.00 8,800.00	300.00 640.00	11,507.82	94 95 96 97 98
				(c)								
	4,000.00 4,500.00 24,700.00 388.49			3.50 8.50 3.50 5.75 1.75	21,775.00 16,700.00 10,200.00 34,367.98 2,511.00	6,221.43 1,964.71 2,914.29 5,977.04 1,434.86	12,750.00 7,500.00 6,300.00 17,500.00 1,800.00		7,150.00 7,100.00 3,500.00 14,367.98 588.00	1,875.00 600.00 200.00 1,450.00 123.00		99 100 101 102
	6,544.24 29,466.87			1.33 4.79	8,222.00 35,175.00	6,181.95 7,343.42	4,802.00 14,950.00		3,120.00 18,850.00	300.00 1,375.00		103 104
	7,045.68			3.00	12,180.00	4,060.00	6,300.00				5,880.00	105
			12,707.08	(d)								106
	61,257.27 60,000.00 232,878.53 362,652.04			8.50 2.80 12.92 7.00	114,141.00 56,000.00 203,648.00 212,971.30	13,428.35 20,000.00 15,762.23 30,424.47	34,900.00 25,000.00 114,036.00 117,300.00	2,000.00	70,000.00 27,000.00 86,125.00 95,000.00	9,241.00 2,000.00 3,487.00 671.30		107 108 111 112

c Reported by State Street Horse R. R.

d Reported by lessee company.

STATISTICS OF TRANSPORTATION.

TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	Total cost of road and equip- ment.	Miles of line owned.	COST OF CONSTRUCTION AND REAL ESTATE.		
					Total cost of construction and real estate.		Roadbed and track.
					For all line owned.	Per mile owned.	
FLORIDA.							
113	Fort Meade	Fort Meade Street R'y Co.	\$6,473.80	2.25	\$5,805.80	\$2,580.36	\$5,805.80
114	Jacksonville	Jacksonville Street R. R. Co.	120,511.13	(a)			
115	Jacksonville	Main Street R'y Co.	20,236.14	1.40	12,362.03	8,830.02	11,972.08
117	Palatka	Palatka and Heights Street R'y Co.	11,025.00	2.00	8,700.00	4,350.00	8,450.00
GEORGIA.							
122	Atlanta	Atlanta Street R. R. Co.	428,022.65	26.00	346,392.62	13,322.79	285,892.62
127	Brunswick	Brunswick Street R. R. Co.	70,000.00	7.50	53,500.00	7,133.33	50,000.00
128	Columbus	Columbus R. R. Co.	615,600.00	(c)			
129	Covington	Covington and Oxford Street R. R. Co.	16,000.00	2.50	12,500.00	5,000.00	10,500.00
132	Rome	North and South Street R. R. Co.	10,000.00	1.83	6,900.00	4,233.13	6,900.00
134	Savannah	City and Suburban R'y Co.	149,500.00	6.00	92,000.00	15,333.33	60,000.00
135	Savannah	Savannah Street and Rural Resort R. R. Co.	125,000.00	7.00	97,000.00	13,857.14	88,500.00
ILLINOIS.							
136	Alton	Alton and Upper Alton Horse Railway and Carrying Co.	d21,100.00		d21,100.00		
138	Aurora	Aurora City R'y Co.	51,675.00	5.15	47,000.00	9,126.21	42,000.00
139	Belleville	Citizens' Horse R'y Co.	37,200.00	4.00	30,000.00	7,500.00	22,000.00
140	Bloomington	Bloomington City R'y.	214,000.00	11.00	175,000.00	15,909.09	110,000.00
141	Cairo	Cairo Street R'y Co.	31,258.44	3.42	25,308.44	7,400.13	22,808.44
146	Chicago	South Chicago City R'y Co.	62,800.00	5.50	51,000.00	9,272.73	40,000.00
148	Chillicothe	People's Street R. R. Co.	7,975.34	1.50	6,145.34	4,096.89	
149	Danville	Citizens' Street R'y Co.	40,658.56	5.00	26,125.29	5,225.06	17,229.96
153	Galesburg	College City Street R'y Co.	35,000.00	(a)			
154	Lasalle	Lasalle and Peru Horse and Dummy R. R. Co.	15,755.27	1.46	11,625.27	7,962.51	
155	Mechanicsburg	Mechanicsburg and Buffalo R'y Co.	17,000.00	(a)			
159	Peoria	Fort Clark Horse R'y Co.	129,147.50	5.00	104,840.00	20,968.00	90,725.25
160	Rockford	Rockford City R'y Co.	70,471.82	4.50	50,083.54	11,129.68	36,132.54
162	Springfield	Citizens' Street R'y Co.	124,000.00	9.25	105,000.00	11,351.35	80,000.00
163	Springfield	Springfield City R'y Co.	144,718.47	7.00	126,793.00	18,113.29	100,000.00
164	Urbana	Urbana and Champaign Street R'y Co.	42,537.99		d38,956.45		
INDIANA.							
165	Anderson	Anderson Street R'y Co.	19,100.00	4.50	13,000.00	2,888.89	12,000.00
167	Evansville	Evansville Street R'y Co.	254,009.33	10.50	182,309.33	17,362.79	159,019.23
169	Fort Wayne	C. L. Centlivre Street R'y Co.	13,899.00	1.33	9,850.00	7,406.02	9,850.00
170	Fort Wayne	Fort Wayne Street R. R. Co.	453,457.51	9.32	404,028.49	43,350.70	
171	Greencastle	Greencastle City Street R. R. Co.	33,650.00	2.60	32,000.00	12,307.69	30,900.00
172	Indianapolis	Citizens' Street R. R. Co.	1,683,765.13	45.00	1,397,145.24	31,047.67	399,895.00
173	Jeffersonville	Ohio Falls Street R'y Co.	28,433.78	4.50	20,225.72	4,494.60	17,477.06
175	Logansport	Logansport R'y Co.	d50,000.00		d50,000.00		
177	Marion	Marion Street R. R. Co.	7,636.00	1.00	6,000.00	6,000.00	6,000.00
178	Michigan city	Citizens' Street R'y Co.	19,925.00	3.25	16,000.00	4,923.08	15,000.00
180	New Albany	New Albany R'y Co.	136,000.00	7.50	110,650.00	14,753.33	83,650.00
183	Terre Haute	Terre Haute Street R'y Co.	94,910.16	6.50	70,866.06	10,902.47	56,730.74
184	Terre Haute	Vigo County Street R'y Co.	43,100.00	4.00	40,000.00	10,000.00	20,000.00
185	Vincennes	Vincennes Citizens' Street R'y Co.	21,850.00	(a)			
IOWA.							
186	Boone	Boone and Boonesboro Street R'y Co.	d30,000.00		d30,000.00		
187	Burlington	Burlington Street R. R.	d15,000.00		d15,000.00		
188	Cedar Rapids	Cedar Rapids and Marion R'y.	35,080.31	3.50	29,731.63	8,494.75	26,033.66
189	Centerville	People's Street R'y Co.	12,000.00	1.75	9,650.00	5,514.29	8,900.00
192	Davenport	Davenport and Rock Island R'y Co.	858,370.38	27.00	789,370.38	29,235.94	
196	Dubuque	Dubuque Street R'y Co.	159,175.00	8.00	140,000.00	17,500.00	80,000.00
199	Keokuk	Keokuk Street R'y Co.	28,680.00	3.50	18,680.00	5,337.14	
200	Lyons	Clinton and Lyons Horse R'y Co.	67,485.35	9.50	52,818.60	5,559.85	39,979.70
201	Marshalltown	Marshalltown Passenger R'y Co.	22,900.00	2.77	16,850.00	6,083.03	11,950.00
203	Red Oaks	Red Oaks Street R'y Co.	7,500.00	1.00	4,860.00	4,860.00	
206	Waterloo	Waterloo Street R'y Co.	12,000.00	2.00	9,350.00	4,675.00	8,850.00
KANSAS.							
207	Abilene	Abilene Street R'y Co.	18,500.00	3.00	16,000.00	5,333.33	
208	Arkansas city	Arkansas City Street R'y Co.	51,728.38	6.00	44,742.24	7,457.04	
209	Atchison	Atchison Electric Street R'y Co.	f90,000.00		f90,000.00		
210	Cottonwood Falls	Consolidated Street R'y Co.	12,200.00	1.50	9,864.00	6,576.00	8,664.00
211	Hutchinson	Hutchinson Street R'y Co.	72,000.00	9.25	60,000.00	6,486.49	40,000.00
213	Lawrence	Lawrence Transportation Co.	55,000.00	(a)			
216	McPherson	McPherson Street R'y Co.	35,100.00	4.50	28,000.00	6,222.22	20,000.00
217	Newton	Newton City Street R'y Co.	35,292.63	4.50	28,519.98	6,337.77	15,288.32
219	Salina	Salina R'y Co.	23,500.00	3.00	20,000.00	6,666.67	15,000.00
221	Topeka	Topeka City R'y Co.	381,855.01	11.00	305,404.96	27,764.09	289,385.34
223	Wichita	Wichita Rapid Transit Co.	30,305.00	4.50	17,500.00	3,888.89	10,000.00
224	Winfield	Union Street R'y Co.	21,250.00	4.50	15,100.00	3,355.56	13,450.00

a Not given separately.

b Equipment for animal power only.

c Construction will be found under mixed powers.

STREET RAILWAYS.

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TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

COST OF CONSTRUCTION AND REAL ESTATE—continued.				Miles of line operated.	COST OF EQUIPMENT.							No.
Right of way.	Land and buildings.	Acquisition of line not built by company.	Miscellaneous items of construction.		Total cost of equipment.		Passenger cars.	Other rolling stock.	Horses and mules.	Harness.	Miscellaneous items of equipment.	
					For all line operated.	Per mile operated.						
				2.25	\$668.00	\$296.89	\$225.00	\$50.00	\$375.00	\$18.00		113
				1.40	(a)							114
\$100.00	\$389.95			2.00	7,874.11	5,624.36					\$7,874.11	115
	150.00				2,325.00	1,162.50	1,800.00		450.00	75.00		117
	60,500.00			26.00	81,630.03	3,139.62	49,800.00	950.00	30,000.00	880.03		122
	3,500.00			7.50	16,500.00	2,200.00	8,500.00		4,000.00		4,000.00	127
				5.00	15,600.00	3,120.00	10,900.00		4,500.00	200.00		128
	2,600.00			2.50	3,500.00	1,400.00	1,800.00	400.00	900.00	200.00	200.00	129
	32,000.00			1.63	3,100.00	1,901.84					3,100.00	132
1,500.00	7,000.00			6.00	57,500.00	9,583.33	35,000.00	1,000.00	20,000.00	1,500.00		134
				7.00	28,000.00	4,000.00	18,000.00	500.00	9,000.00	500.00		135
		\$21,100.00			(e)							136
	5,000.00			5.15	4,675.00	907.77	4,000.00		600.00	75.00		138
	8,000.00			4.00	7,200.00	1,800.00	4,500.00		2,500.00	200.00		139
15,000.00	50,000.00			11.00	39,000.00	3,545.45	25,000.00		12,000.00	2,000.00		140
	2,500.00			3.42	5,950.00	1,739.77	4,500.00		1,300.00	150.00		141
	11,000.00			5.50	11,800.00	2,145.45	6,500.00		4,800.00	500.00		146
			\$6,145.34	1.50	1,830.00	1,220.00					1,830.00	148
	8,895.33			5.00	14,533.27	2,906.65	8,233.27		6,000.00	300.00		149
					(a)							153
			11,625.27	1.46	4,130.00	2,828.77					4,130.00	154
1,000.00	13,114.75			5.00	(a) 24,307.50	4,861.50	14,800.00		9,007.50	500.00		155
												159
	13,951.00			4.50	20,388.28	4,530.73	11,863.35		8,106.00	418.93		160
	25,000.00			9.25	19,000.00	2,054.05	10,000.00	500.00	8,000.00	500.00		162
	26,793.00			7.00	17,925.47	2,560.78	9,418.47				8,507.00	163
		38,956.45		2.00	3,581.54	1,790.77					3,581.54	164
	1,000.00			4.50	6,100.00	1,355.56	3,500.00	100.00	2,000.00	500.00		165
	23,290.10			10.50	71,700.00	6,828.57	44,800.00	1,000.00	25,000.00	900.00		167
				1.33	4,049.00	3,044.36	2,500.00		1,485.00	64.00		169
			404,028.49	9.32	49,429.02	5,303.54	23,500.00	575.00	24,243.50	1,110.52		170
	1,100.00			2.60	1,650.00	634.62	900.00		700.00	50.00		171
736,268.78	260,981.46			45.00	286,619.89	6,369.33					286,619.89	172
	2,748.66			4.50	8,208.06	1,824.01	4,744.57		3,048.60	414.89		173
		50,000.00			(e)							175
	1,000.00			1.00	1,636.00	1,636.00	1,006.00		600.00	30.00		177
				3.25	3,925.00	1,207.69	2,300.00		1,500.00	125.00		178
	27,000.00			7.50	25,350.00	3,380.00	15,000.00	350.00	9,000.00	1,000.00		180
	14,135.32			6.50	24,044.10	3,699.09	12,150.00		10,384.95	929.76	579.39	183
20,000.00				4.00	3,100.00	775.00	2,000.00	1,000.00		100.00		184
					(a)							185
		30,000.00			(e)							186
	3,697.97	15,000.00			(e)							187
	750.00			3.50	5,348.68	1,528.19	4,218.68		975.00	155.00		188
				1.75	2,350.00	1,342.86	1,500.00		800.00	50.00		189
			789,370.38	27.00	69,000.00	2,555.56	40,000.00		29,000.00			192
	60,000.00			8.00	19,175.00	2,396.88	13,200.00	600.00	4,875.00	500.00		196
			18,680.00	3.50	10,000.00	2,857.14	6,000.00		3,000.00	1,000.00		199
	12,838.90			9.50	14,666.75	1,543.87	7,224.75		7,010.00	432.00		200
	4,900.00			2.77	6,050.00	2,184.12	3,800.00	50.00	2,100.00	100.00		201
			4,860.00	1.00	2,640.00	2,640.00	2,200.00		400.00	40.00		203
	500.00			2.00	2,650.00	1,325.00	1,800.00		800.00	50.00		206
			16,000.00	3.00	2,500.00	833.33					2,500.00	207
			44,742.24	6.00	6,986.14	1,164.36	4,518.29		2,285.75	182.10		208
		90,000.00			(e)							209
	1,200.00			1.50	2,336.00	1,557.33	1,406.00		930.00			210
	20,000.00			9.25	12,000.00	1,297.30	6,000.00	500.00	5,000.00	500.00		211
					(a)							213
	8,000.00			4.50	7,100.00	1,577.78	3,000.00		4,000.00	100.00		216
	13,231.66			4.50	6,772.65	1,505.03	4,386.15		2,386.50			217
	5,000.00			3.00	3,500.00	1,166.67	3,500.00					219
	16,019.62			11.00	76,450.05	6,950.00	57,950.05		18,500.00			221
	7,500.00			4.50	12,805.00	2,845.56	5,100.00	7,150.00	525.00	30.00		223
	1,650.00			4.50	6,150.00	1,366.67	4,000.00		2,000.00	150.00		223

d Acquisition only reported.

e Not given.

f Acquisition only reported; road purchased in block.

STATISTICS OF TRANSPORTATION.

TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	Total cost of road and equip- ment.	Miles of line owned.	COST OF CONSTRUCTION AND REAL ESTATE.		
					Total cost of construction and real estate.		Roadbed and track.
					For all line owned.	Per mile owned.	
KENTUCKY.							
225	Bowling Green . . .	Park City R'y	\$13,134.49	1.59	\$9,146.49	\$5,752.51	\$7,146.49
226	Covington	South Covington and Cincinnati Street R'y Co	737,200.00	15.34	626,177.00	40,819.88	240,953.00
227	Henderson	Henderson Street R'y Co	41,144.00	4.25	30,430.00	7,160.00	27,100.00
229	Maysville	Maysville Street Railroad and Transfer Co	29,000.00	3.00	22,875.00	7,625.00	20,000.00
230	Owensboro	Owensboro City R'y Co	32,000.00		(a)		
LOUISIANA.							
232	New Orleans	Canal and Claiborne R. R. Co	369,179.00	13.00	301,339.00	23,179.92	178,000.00
233	New Orleans	Crescent City R. R. Co	1,322,526.82	13.00	1,208,309.09	92,946.85	1,072,336.94
234	New Orleans	New Orleans and Carrollton R. R. Co	1,169,593.35	16.00	1,081,901.60	67,618.85	654,007.17
237	New Orleans	Orleans R. R. Co	194,916.58	9.50	160,014.93	16,843.68	127,881.99
238	New Orleans	Saint Charles Street R. R. Co	897,554.91	11.14	764,828.50	68,656.06	425,972.36
MAINE.							
239	Biddeford	Biddeford and Saco R. R. Co	84,623.48	5.73	62,384.02	10,887.26	54,061.20
240	Fryeburg	Fryeburg Horse R. R. Co	7,420.62	3.00	6,574.11	2,191.37	
241	Portland	Portland R. R. Co	293,835.87	11.31	227,939.62	20,153.81	173,924.79
MARYLAND.							
242	Baltimore	Baltimore and Powhatan R'y Co	95,000.00	6.00	87,750.00	14,625.00	80,000.00
243	Baltimore	Baltimore City Passenger R'y Co	1,462,616.77	22.50	1,098,316.77	48,814.08	460,750.00
244	Baltimore	Baltimore Traction Co	2,996,731.28	15.00	2,821,173.78	188,078.25	2,679,912.45
245	Baltimore	Baltimore Union Passenger R'y Co	1,207,063.81	28.44	984,058.16	34,601.20	836,998.06
246	Baltimore	Highlandtown and Point Breeze R'y Co	147,304.37	10.53	130,588.98	12,401.61	107,588.98
248	Baltimore	North Baltimore Passenger R'y Co	653,050.00	10.50	487,500.00	46,428.57	
MASSACHUSETTS.							
251	Boston	Boston and Chelsea Street R. R. Co	6121,000.00	4.12	121,000.00	29,368.93	
254	Boston	Malden and Melrose R. R. Co	6165,500.00	6.29	165,500.00	26,311.61	
255	Boston	Newton Street R'y Co	183,108.29	5.48	160,675.37	29,320.32	143,941.11
256	Boston	North Woburn Street R. R. Co	124,492.82	7.34	103,718.52	14,130.59	88,492.80
258	Boston	Somerville Horse R. R. Co	6153,000.00	4.88	153,000.00	31,352.46	
260	Brockton	Brockton Street R'y Co	313,333.44	12.75	252,100.48	19,772.59	
262	Fall River	Globe Street R'y Co	323,514.48	12.29	258,870.48	21,063.51	200,000.00
263	Fitchburg	Fitchburg Street R'y Co	93,698.96	6.30	75,013.96	11,906.98	69,519.33
264	Gloucester	Gloucester Street R'y Co	100,300.22	5.03	68,653.90	13,648.89	51,353.81
265	Haverhill	Haverhill and Groveland Street R'y Co	135,972.26	12.40	96,123.15	7,751.87	74,893.41
266	Holyoke	Holyoke Street R'y Co	82,314.57	5.90	57,060.75	9,671.31	56,242.91
267	Lawrence	Merrimack Valley Horse R. R. Co	116,440.00	9.81	86,440.00	8,811.42	48,840.00
268	Lowell	Lowell and Dracut Street R'y Co	208,481.96	5.78	149,204.68	25,813.96	107,539.33
269	Lowell	Lowell Horse R. R. Co	280,410.57	12.08	200,572.99	16,603.72	165,992.06
271	Natick	Natick and Cochituate Street R'y Co	32,987.50	3.00	25,550.00	8,516.67	21,550.00
272	New Bedford	Union Street R'y Co	383,454.63	13.34	294,676.41	22,089.69	212,919.64
273	Newburyport	Newburyport and Amesbury Horse R. R. Co	231,205.88	10.93	174,595.24	15,973.95	142,168.47
275	Northampton	Northampton Street R'y Co	67,425.50	3.20	56,925.50	17,789.22	36,000.00
277	Pittsfield	Pittsfield Street R'y Co	49,993.07	3.33	35,515.62	10,665.35	28,239.28
280	Taunton	Taunton Street R'y Co	150,326.72	7.50	115,390.07	15,385.34	89,801.15
281	Wareham	East Wareham, Onset Bay and Point Independence Street R'y Co	12,889.70	1.67	9,757.06	5,842.55	8,664.64
282	Worcester	Worcester Consolidated Street R'y Co	656,286.68	12.50	535,286.24	42,822.90	377,873.69
MICHIGAN.							
285	Detroit	Detroit City R'y	1,856,627.36	28.90	1,290,046.42	44,638.28	826,438.52
288	Detroit	Fort Wayne and Elmwood R'y Co	347,701.24	14.00	253,793.17	18,128.08	212,919.64
291	Grand Rapids	Valley City Street and Cable R'y Co	169,087.90	7.30	140,800.00	19,287.67	130,000.00
292	Jackson	Jackson City R'y Co	120,000.00	5.00	89,000.00	17,800.00	47,000.00
295	Saginaw	City of Saginaw Street R. R. Co	230,000.00		230,000.00		
MINNESOTA.							
298	Anoka	Anoka Street R'y Co	4,400.00		(a)		
299	Duluth	Duluth Street R'y Co	195,611.76	3.50	148,463.40	42,418.11	114,615.09
300	Mankato	Mankato Street R'y Co	22,407.55	3.33	14,805.27	4,446.03	13,191.99
302	Minneapolis	Minneapolis Street R'y Co	2,751,934.26	40.00	2,141,153.22	53,528.83	1,282,950.72
303	Saint Cloud	Saint Cloud City Street Car Co	12,237.49	1.50	9,687.49	6,458.33	9,687.49
306	Winona	Winona City R'y Co	35,572.67	4.82	23,808.19	4,939.46	16,235.00
MISSISSIPPI.							
307	Enterprise	Enterprise Street R'y Co	1,805.00	1.25	1,400.00	1,120.00	
308	Jackson	Jackson City R'y Co	68,200.00	3.00	47,500.00	15,833.33	
309	Meridian	Meridian Street R. R. Co	28,500.00	4.00	20,000.00	5,000.00	18,000.00
310	Natchez	Natchez Street R. R. Co	6,000.00		(a)		
MISSOURI.							
311	Carthage	Carthage Horse R'y Co	18,350.00	3.00	16,000.00	5,333.33	16,000.00
312	Clinton	Clinton Street R'y Co	13,750.00	1.50	12,000.00	8,000.00	
313	Hannibal	Hannibal R'y Co	25,000.00		(a)		
318	Kansas city	Metropolitan Street R'y Co	424,286.83	6.27	395,046.51	63,005.82	125,753.10
320	Kansas city	North Kansas City Street R'y	14,049.39	2.25	11,399.85	5,066.60	10,844.74
326	Saint Louis	Baden and Saint Louis R. R.	42,375.81	3.00	28,354.11	9,451.37	
327	Saint Louis	Benton-Bellefontaine R'y Co	161,000.00	7.00	105,000.00	15,000.00	50,000.00
328	Saint Louis	Cass Avenue and Fair Ground R'y Co	360,000.00	3.50	275,000.00	78,571.43	150,000.00
330	Saint Louis	Forest Park, Laclede and Fourth Street R'y Co	184,885.00	2.79	143,024.60	51,263.30	80,711.78
331	Saint Louis	Fourth Street and Arsenal R'y Co	71,500.00	3.00	38,000.00	12,666.67	18,000.00

a Not given separately.

b Construction and real estate only.

c Reported by Lynn and Boston R. R.

STREET RAILWAYS.

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TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

COST OF CONSTRUCTION AND REAL ESTATE—continued.					COST OF EQUIPMENT.								No.
Right of way.	Land and buildings.	Acquisition of line not built by company.	Miscellaneous items of construction.	Miles of line operated.	Total cost of equipment.		Passenger cars.	Other rolling stock.	Horses and mules.	Harness.	Miscellaneous items of equipment.		
					For all line operated.	Per mile operated.							
\$300,000.00	\$2,000.00			1.59	\$3,988.00	\$2,508.18	\$3,000.00		\$903.00	\$85.00		225	
	85,224.00			18.34	111,023.00	6,053.60	42,300.00	\$2,000.00	49,410.00	7,686.00	\$9,627.00	226	
	3,330.00			4.25	10,714.00	2,520.94	5,235.00		5,157.00	322.00		227	
	2,875.00			3.00	6,125.00	2,041.67	3,600.00	100.00	2,325.00	100.00		229	
					(a)							230	
55,000.00 40,000.00 335,000.00	68,339.00			13.00	67,840.00	5,218.46	32,000.00		32,840.00	3,000.00		232	
	95,972.15			13.00	114,217.73	8,785.98	55,206.75		56,583.66	2,427.32		233	
	92,894.43			16.00	87,691.75	5,480.73	27,000.00		60,691.75			234	
	32,132.94			9.50	34,901.65	3,673.86	16,000.00		16,264.15	2,637.50		237	
300,000.00	38,856.14			11.38	132,726.41	11,663.13	75,778.14		54,594.40	2,353.87		238	
	8,322.82			5.73	22,239.46	3,881.23	9,200.00	120.00	10,920.00	1,086.97	912.49	239	
			\$6,574.11	3.00	846.51	282.17	677.51		159.00	10.00		240	
	52,789.83		1,225.00	11.31	65,896.25	5,826.37	34,016.90		31,879.35			241	
	7,750.00			6.00	7,250.00	1,208.33	4,200.00		2,750.00	300.00		242	
	637,566.77			22.50	364,300.00	16,191.11	150,000.00	8,300.00	195,000.00	11,000.00		243	
	141,261.33			15.00	175,557.50	11,703.83	87,835.00		83,000.00	4,722.50		244	
	147,060.10			28.83	223,005.65	7,735.19	94,000.00		84,622.28		44,383.37	245	
			23,000.00	11.00	16,715.39	1,519.58					16,715.39	246	
			487,500.00	10.50	165,550.00	15,766.67	85,000.00	4,000.00	71,550.00	5,000.00		248	
			121,000.00		(c)							251	
			165,500.00	5.48	22,432.92	4,093.60	21,414.81				1,018.11	254	
	16,734.26			7.80	20,774.30	2,663.37	10,330.13	1,482.57	8,388.25	573.35		255	
	15,225.72		153,000.00		(d)							256	
												258	
	38,712.03		213,388.45	12.75	61,232.96	4,802.59	26,411.23	8,204.72	25,060.00	1,557.01		260	
	58,870.48			12.29	64,644.00	5,259.89	33,000.00		28,800.00	994.00	1,850.00	262	
	5,494.63			6.30	18,685.00	2,965.87	8,500.00	1,700.00	7,685.00	800.00		263	
	17,300.09			5.03	31,646.32	6,291.51	12,852.30	2,284.02	15,400.00	1,110.00		264	
	21,229.74			12.40	39,849.11	3,213.64	21,385.00		9,400.00		9,064.11	265	
	817.84			5.90	25,253.82	4,280.31	12,690.31	2,065.03	9,995.00	503.48		266	
	37,600.00			9.81	30,000.00	3,058.10	16,400.00	400.00	13,000.00	200.00		267	
	41,665.35			5.78	59,277.28	10,255.58	30,346.53		23,873.05		5,057.70	268	
	34,580.93			12.17	79,837.58	6,560.20	41,039.50		33,039.35		5,758.73	269	
3,000.00	1,000.00			3.00	7,417.50	2,472.50	4,400.00	700.00	2,317.50			271	
	71,943.62			13.34	88,778.22	6,655.04	54,551.91	1,898.00	26,200.00	2,946.23	3,182.08	272	
	32,426.77			10.93	56,610.64	5,179.38					56,610.64	273	
	20,925.50			3.20	10,500.00	3,281.25	4,600.00	1,000.00	4,500.00	400.00		275	
	7,276.34			3.33	14,477.45	4,347.58	8,084.45	423.00	5,370.00	600.00		277	
	25,588.92			7.50	34,936.65	4,658.22	19,797.11		12,743.13		2,396.41	280	
	1,092.42			1.67	3,132.64	1,875.83	1,724.60	458.04	800.00	150.00		281	
	157,412.55			12.50	121,000.44	9,680.04	63,754.44		57,246.00			282	
	463,607.90			32.50	566,580.94	17,433.26	271,764.58		294,816.36			285	
	40,873.53			14.00	93,908.07	6,707.72	50,909.79		39,776.33	674.49	2,547.46	288	
	10,800.00			7.30	28,287.90	3,875.05	16,810.00		10,868.00	234.90	375.00	291	
	42,000.00			5.00	31,000.00	6,200.00					31,000.00	292	
		\$30,000.00			(f)							295	
					(a)							298	
	33,848.31			3.50	47,148.36	13,470.96	23,393.00	2,402.00			21,353.36	299	
	1,613.28			3.33	7,602.28	2,282.97	3,703.96		2,880.00	284.76	733.56	300	
	858,202.50			40.00	610,781.04	15,269.53	267,200.00	190,423.17	153,157.87			302	
				1.50	2,550.00	1,700.00	1,000.00		1,500.00	50.00		303	
	7,573.19			4.82	11,764.48	2,440.76	6,486.48		5,278.00			306	
			1,400.00	1.25	405.00	324.00	200.00	100.00	100.00	5.00		307	
	12,500.00		35,000.00	5.00	20,700.00	4,140.00	12,800.00		7,500.00	400.00		308	
	2,000.00			4.00	8,500.00	2,125.00	4,000.00		4,000.00	500.00		309	
					(a)							310	
				3.00	2,350.00	783.33	1,500.00		800.00	50.00		311	
			12,000.00	1.50	1,750.00	1,166.67	750.00		900.00	100.00		312	
					(a)							313	
210,373.97	52,919.44		6,000.00	6.27	29,240.32	4,663.53	16,108.87	454.45	11,940.00	739.00		318	
	555.11			2.25	2,649.54	1,177.57	1,784.69		775.00	89.85		320	
			28,354.11	3.00	14,021.70	4,673.90					14,021.70	326	
	55,000.00			7.00	56,000.00	8,000.00	40,000.00		15,000.00	1,000.00		327	
	125,000.00			3.50	85,000.00	24,285.71	50,000.00		34,000.00	1,000.00		328	
	56,995.82			4.30	41,860.40	9,734.98	15,850.63		23,537.21	2,472.56		330	
5,317.00	20,000.00			3.00	33,500.00	11,166.67	15,000.00	5,000.00		1,500.00		331	

d Reported by West End Street R'y Co.

e Acquisition only reported.

f Not given.

STATISTICS OF TRANSPORTATION.

TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	Total cost of road and equipment.	Miles of line owned.	COST OF CONSTRUCTION AND REAL ESTATE.		
					Total cost of construction and real estate.		Roadbed and track.
					For all line owned.	Per mile owned.	
MISSOURI—cont'd.							
334	Saint Louis.....	Missouri R. R. Co.....	\$270,784.46	3.75	\$205,588.91	\$54,823.71	
335	Saint Louis.....	Mound City Street R'y Co.....	343,866.25	5.82	255,796.01	43,951.20	\$180,761.74
336	Saint Louis.....	Northern Central R'y Co.....	200,000.00	8.00	120,000.00	15,000.00	40,000.00
339	Saint Louis.....	Saint Louis R. R. Co.....	827,000.00	7.33	600,000.00	81,855.39	500,000.00
340	Saint Louis.....	Southern R'y Co.....	448,932.77	7.83	312,884.82	39,959.75	263,735.70
341	Saint Louis.....	Union Depot R. R. Co.....	857,789.38	13.97	691,098.67	49,470.20	
342	Saint Louis.....	Union R. R. Co.....	530,000.00	4.00	450,000.00	112,500.00	350,000.00
343	Sedalia.....	Sedalia Street R'y Co.....	15,100.00	2.00	10,500.00	5,250.00	10,000.00
344	Springfield.....	Citizens' R'y Co.....	204,374.43	5.70	182,514.13	32,020.02	172,116.21
345	Warrensburg.....	Electric Springs R'y.....	a14,000.00		a14,000.00		
MONTANA.							
348	Helena.....	Helena Street R'y Co.....	66,639.75	3.50	47,917.75	13,690.79	29,800.00
NEBRASKA.							
349	Beatrice.....	Beatrice Street R'y Co.....	28,612.70	4.00	23,372.11	5,843.03	19,605.68
350	Fremont.....	Fremont Street R'y Co.....	27,000.00	5.00	20,900.00	4,180.00	17,000.00
351	Grand Island.....	Grand Island Street R'y Co.....	59,025.26	6.77	47,175.26	6,968.28	
352	Hastings.....	Citizens' Street R'y Co.....	12,160.00	4.00	11,000.00	2,750.00	
353	Kearney.....	Kearney Street R'y Co.....	24,640.00	4.00	21,640.00	5,410.00	
354	Lincoln.....	Bethany Heights Street R'y Co.....	15,000.00	3.00	14,500.00	4,833.33	
356	Lincoln.....	Lincoln Street R'y Co.....	250,000.00	12.84	200,000.00	15,576.32	175,000.00
357	Lincoln.....	South Lincoln Street R'y.....	10,000.00	c2.50	9,500.00	3,800.00	
358	Lincoln.....	Standard Street R'y Co.....	60,000.00	6.25	43,000.00	6,880.00	40,000.00
359	Nebraska city.....	Nebraska City Street R'y Co.....	21,099.45	3.25	16,084.88	4,949.19	14,480.85
360	Norfolk.....	Norfolk Street R'y Co.....	12,511.00	2.50	10,632.00	4,252.80	10,157.00
362	Wymore.....	Wymore and Blue Springs R'y Co.....	24,450.10	3.75	18,999.00	5,066.40	
363	York.....	York Street R'y Co.....	13,700.00	2.05	9,675.00	4,719.51	9,475.00
NEW HAMPSHIRE.							
364	Dover.....	Dover Horse R. R.....	20,434.43	2.39	13,237.44	5,538.68	
365	Laconia.....	Laconia and Lake Village Horse R. R.....	36,010.43	2.45	21,339.03	8,709.81	12,650.04
366	Manchester.....	Manchester Street R'y.....	47,500.00		(d)		
367	Nashua.....	Nashua Street R'y.....	70,117.65	3.90	43,699.93	11,205.11	28,520.68
NEW JERSEY.							
370	Camden.....	Camden Horse R. R. Co.....	e556,572.38	14.12	505,797.15	35,821.33	489,107.89
371	Elizabeth.....	Elizabeth and Newark Horse R. R. Co.....	411,790.97	12.62	337,682.14	26,757.70	289,822.61
372	Jersey city.....	Jersey City and Bergen R. R. Co.....	997,986.54	18.25	783,921.48	42,954.60	539,015.10
374	Keyport.....	Keyport and Matawan Street R'y Co.....	83,000.00	3.00	73,530.00	24,510.00	46,530.00
375	Newark.....	Essex Passenger R'y Co.....	2,379,794.50		2,071,560.50		
376	Newark.....	Newark and Irvington Street R'y Co.....	209,402.28		(d)		
377	Newark.....	Newark and South Orange Horse Car R. R.....	281,394.00	6.00	200,000.00	33,333.33	100,000.00
379	Orange.....	Orange, Cross Town and Bloomfield R'y Co.....	118,517.25	6.50	80,838.62	12,436.71	72,117.05
380	Paterson.....	Paterson R'y Co.....	339,938.42	14.00	265,139.42	18,938.53	220,000.00
381	Phillipsburg.....	Phillipsburg Car R. R. Co.....	30,000.00		(d)		
NEW MEXICO.							
382	Albuquerque.....	Albuquerque Street R. R. Co.....	42,247.38	2.00	37,864.61	18,932.31	26,814.99
383	Las Vegas.....	Las Vegas Street R'y Co.....	21,950.00	1.50	16,000.00	10,666.67	10,500.00
NEW YORK.							
385	Albany.....	North and East Greenbush Horse R. R. Co.....	82,973.60	1.70	74,172.78	43,631.05	13,453.47
387	Amsterdam.....	Amsterdam Street R. R. Co.....	16,300.00	1.63	15,000.00	9,202.45	11,600.00
388	Auburn.....	Auburn City R'y Co.....	100,250.33	5.13	87,726.67	17,100.72	30,980.72
389	Babylon.....	Babylon Horse R. R.....	5,600.00		(d)		
390	Binghamton.....	Binghamton and Port Dickenson F. R. Co.....	f31,000.00		f31,000.00		
392	Binghamton.....	Court Street and East End R. R. Co.....	38,214.40	3.25	28,388.39	8,734.89	21,438.62
393	Brooklyn.....	Atlantic Avenue R'y Co.....	2,135,777.33	11.50	1,682,728.96	146,324.26	235,569.91
394	Brooklyn.....	Broadway R. R. Co. of Brooklyn.....	874,272.98	11.09	552,527.78	49,822.16	336,226.73
395	Brooklyn.....	Brooklyn, Bushwick and Queens County R. R.....	380,271.92	6.00	359,966.50	59,994.42	
396	Brooklyn.....	Brooklyn City and Newtown R. R. Co.....	2,197,774.43	10.20	1,822,183.03	178,645.40	1,273,614.27
397	Brooklyn.....	Brooklyn City R. R. Co.....	4,861,246.75	40.45	3,255,156.20	80,473.58	1,412,638.16
398	Brooklyn.....	Brooklyn Cross Town R. R. Co.....	784,492.19		(d)		
400	Brooklyn.....	Bushwick R. R. Co.....	1,131,874.02		(d)		
401	Brooklyn.....	Calvary Cemetery, Green Point and Brooklyn R. R. Co.....	300,000.00		(d)		
402	Brooklyn.....	Coney Island and Brooklyn R. R. Co.....	858,283.20	10.76	729,849.67	67,829.89	78,794.30
404	Brooklyn.....	Grand Street and Newtown R. R. Co.....	444,662.28		(d)		
405	Brooklyn.....	Green Point and Lorimer Street R. R. Co.....	245,000.00		(d)		
408	Brooklyn.....	New Williamsburg and Flatbush R. R. Co.....	548,662.28		(d)		
409	Brooklyn.....	Prospect Park and Coney Island R. R. Co. (City Div.).....	93,139.54	3.50	64,771.00	18,506.00	28,457.16
410	Brooklyn.....	Prospect Park and Flatbush R. R. Co.....	63,886.32	1.50	58,167.77	38,778.51	53,057.02
412	Brooklyn.....	South Brooklyn Central R. R. Co.....	410,998.24	4.00	328,507.73	82,126.93	292,409.78
413	Brooklyn.....	Van Brunt Street and Erie Basin R. R. Co.....	118,676.43	1.50	96,765.93	64,510.62	72,259.17
414	Buffalo.....	Buffalo East Side Street R'y Co.....	946,787.92	31.70	823,328.26	25,972.50	661,451.87
416	Buffalo.....	West Side Street R'y Co.....	a41,721.62		a41,721.62		
417	Canandaigua.....	Canandaigua Street R. R. Co.....	32,704.24	2.50	24,920.24	9,968.10	

a Acquisition only reported.

b Not given.

c Leased line.

d Not given separately.

STREET RAILWAYS.

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TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

COST OF CONSTRUCTION AND REAL ESTATE—continued.				Miles of line operated.	COST OF EQUIPMENT.							No.
Right of way.	Land and buildings.	Acquisition of line not built by com- pany.	Miscellane- ous items of construction.		Total cost of equipment.		Passenger cars.	Other roll- ing stock.	Horses and mules.	Harness.	Miscellane- ous items of equip- ment.	
					For all line operated.	Per mile operated.						
\$14,384.47	\$60,649.80		\$205,588.91	3.75	\$65,195.55	\$17,385.48					\$65,195.55	334
	80,000.00			5.82	88,070.24	15,132.34	\$59,443.26		\$23,626.98	\$5,000.00		335
	100,000.00			8.00	80,000.00	10,000.00	50,000.00		29,000.00	1,000.00		336
	100,000.00			7.33	227,000.00	30,968.62	125,000.00		100,000.00	2,000.00		339
	49,149.12			7.83	136,047.95	17,375.22	48,109.97		78,307.74	9,630.24		340
			691,098.67	13.97	166,690.71	11,932.05	95,939.01		63,591.70	7,160.00		341
	100,000.00			4.00	80,000.00	20,000.00	50,000.00		29,000.00	1,000.00		342
	500.00			2.00	4,600.00	2,300.00	3,500.00		1,000.00	100.00		343
	10,397.92			7.80	21,860.30	2,802.60	11,417.54		9,844.51	598.25		344
			\$14,000.00	(b)								
	17,600.00		517.75	3.50	18,722.00	5,349.14	11,277.00		6,880.00	565.00		348
				4.00	5,240.59	1,310.15	2,800.00		2,200.00	240.59		349
	3,766.43			5.00	6,100.00	1,220.00	4,400.00		1,600.00	100.00		350
	3,900.00		47,175.26	6.77	11,850.00	1,750.37					11,850.00	351
			11,000.00	4.00	1,160.00	290.00	800.00		300.00	60.00		352
			21,640.00	4.00	3,000.00	750.00					3,000.00	353
			14,500.00	3.00	500.00	166.67					500.00	354
	25,000.00			12.84	50,000.00	3,894.08	30,000.00		19,000.00	1,000.00		356
			9,500.00	2.50	500.00	200.00					500.00	357
	3,000.00			6.25	17,000.00	2,720.00	5,000.00	\$2,900.00	8,800.00	300.00		358
				3.25	5,014.57	1,542.94	2,700.00		2,013.50	301.07		359
	1,604.03			2.50	1,879.00	751.60					1,879.00	360
	475.00		18,999.00	3.75	5,451.10	1,453.63					5,451.10	362
	200.00			2.05	4,025.00	1,963.41	2,500.00		1,400.00	125.00		363
			13,237.44	2.39	7,196.99	3,011.29					7,196.99	364
	8,688.99			2.45	14,671.40	5,988.33	7,275.00	2,324.00	4,709.40	363.00		365
				(d)								366
	15,179.25			3.90	26,417.72	6,773.77	15,624.93		10,178.35		614.44	367
	16,689.26			14.12	50,775.23	3,595.98	26,636.18		22,655.00	1,484.05		370
	47,859.53			12.62	74,108.83	5,872.33	35,328.92		37,436.60	1,343.31		371
	244,906.38			18.25	214,065.06	11,729.59	95,001.00	10,025.00	99,875.00	9,164.06		372
11,000.00	16,000.00			3.00	9,470.00	3,156.67	4,800.00	400.00	4,050.00	160.00	60.00	374
			2,071,560.50		308,234.00						308,234.00	375
				(d)								376
	100,000.00			8.00	81,394.00	10,174.25	65,000.00		11,394.00	5,000.00		377
	8,721.57			6.50	37,678.63	5,796.71	16,645.54		19,745.49	1,287.60		379
	45,139.42			14.00	74,799.00	5,342.79	30,000.00	10,000.00	30,000.00	4,799.00		380
				(d)								381
	11,049.62			2.00	4,382.77	2,191.39					4,382.77	382
	5,500.00			1.50	5,950.00	3,966.67	4,500.00		1,300.00	150.00		383
1,500.00	2,037.69	50,000.00	7,181.62	1.70	8,800.82	5,176.95	3,836.88		4,080.00	883.94		385
	3,400.00			1.63	1,300.00	797.55			1,200.00	100.00		387
	6,745.95	50,000.00		5.13	12,523.66	2,441.26	6,992.41	300.00	4,705.25	526.00		388
				(d)								389
			31,000.00	(b)								390
1,700.00	5,040.01		209.76	3.25	9,826.01	3,023.39	6,435.05		3,079.60	211.36	100.00	392
30,000.00	1,164,338.35	252,820.70		11.50	453,048.37	20,395.51	223,355.09	8,163.92	184,361.13	18,105.63	19,062.60	393
	216,301.05			11.09	321,745.20	29,012.19	178,500.00	11,000.00	104,000.00	6,700.00	21,545.20	394
			359,966.50	6.12	20,305.42	3,317.88					20,305.42	395
204,817.91	343,750.85			11.40	375,591.40	32,946.61	235,592.52	8,659.75	116,325.00	9,577.50	5,436.63	396
	1,842,518.04			78.35	1,606,090.55	20,498.92					1,606,090.55	397
				(d)								398
				(d)								400
				(d)								401
26,090.15	127,469.62	450,000.00	47,495.60	11.60	128,433.53	11,071.86	74,377.59		51,170.00	2,885.94		402
					(d)							404
					(d)							405
					(d)							408
	36,313.84			3.50	28,368.54	8,105.30	13,865.00	1,000.00	11,273.94	2,229.60		409
	5,110.75			1.50	5,718.55	3,812.37	2,572.80	250.00	2,575.00	320.75		410
	36,097.95			4.00	82,490.51	20,622.63	48,944.11	1,185.00	30,774.10	1,587.30		412
	24,506.76			1.50	21,910.50	14,607.00	13,855.00		8,055.50			413
	152,089.58		9,786.81	31.70	123,459.66	3,894.63	55,370.00	6,247.18	59,901.48	1,941.00		414
			41,721.62	(b)								416
21,330.24	3,600.00			2.50	7,784.00	3,113.60					7,784.00	417

e Discrepancy with Table 8 caused by deterioration of value of equipment.

f Miscellaneous items of construction only reported.

STATISTICS OF TRANSPORTATION.

TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	Total cost of road and equip- ment.	Miles of line owned.	COST OF CONSTRUCTION AND REAL ESTATE.		
					Total cost of construction and real estate.		Roadbed and track.
					For all line owned.	Per mile owned.	
NEW YORK—cont'd.							
418	Cortland	Cortland and Homer Horse R. R. Co.	\$43,596.38	3.89	\$34,235.90	\$8,801.00	\$25,234.36
420	Far Rockaway	Rockaway Village R. R. Co.	50,543.72	1.15	49,849.32	43,347.23	
421	Frankfort	Frankfort and Ilion Street R. R. Co.	20,766.14	2.50	18,357.04	7,342.82	16,743.60
422	Fredonia	Dunkirk and Fredonia R. R. Co.	59,928.86	3.51	52,362.51	14,918.09	39,351.43
423	Fulton	Fulton and Oswego Falls Street R'y Co.	33,481.48	1.14	29,522.48	25,896.91	29,122.48
424	Glens Falls	Glens Falls, Sandy Hill and Fort Edward Street R'y Co.	95,440.00	7.25	79,631.25	10,983.62	77,187.00
426	Jamestown	Jamestown Street R'y Co.	51,590.90	3.37	36,974.13	10,971.55	29,385.82
427	Johnstown	Johnstown, Gloversville and Kingsboro Horse R'y Co.	50,153.99	4.08	44,428.37	10,889.31	39,277.37
428	Kingston	Kingston City R. R. Co.	89,171.92	2.78	79,855.11	28,724.86	68,507.48
429	Lockport	Lockport Street R. R. Co.	43,734.83	2.99	32,158.77	10,755.44	4,517.49
430	Long Island city	Long Island City and Newtown R. R. Co.	170,200.00	4.50	150,000.00	33,333.33	
431	Long Island city	Steinway and Hunters Point R. R. Co.	534,244.84	15.50	429,365.21	27,700.98	48,965.03
432	Mohawk	Herkimer and Mohawk Street R. R. Co.	17,000.00	1.30	15,000.00	11,538.46	
433	Mohawk	Mohawk and Ilion Horse R. R. Co.	17,800.00	1.75	14,500.00	8,285.71	12,500.00
435	Newburg	Newburg Street R'y Co.	164,552.08		(a)		
436	New York	Broadway and Seventh Avenue R. R. Co.	4,295,025.00	8.33	3,764,647.22	451,938.44	2,644,531.83
437	New York	Central Cross Town R. R. Co.	840,000.00	2.04	761,246.13	373,159.87	379,616.32
438	New York	Central Park, North and East River R. R. Co.	2,779,369.47	9.58	2,328,738.99	243,083.40	1,826,113.20
439	New York	Chambers Street and Grand Street Ferry R. R. Co.	833,471.67	2.33	766,760.67	329,081.83	701,266.10
440	New York	Christopher and Tenth Street R. R. Co.	6766,211.32		(a)		
441	New York	Dry Dock, East Broadway and Battery R. R. Co.	3,063,587.67	7.92	2,751,295.67	347,385.82	355,579.28
442	New York	Eighth Avenue R. R. Co.	1,782,003.57	10.00	1,509,929.95	150,993.00	655,839.88
443	New York	Forty-second Street and Grand Street Ferry R. R. Co.	1,020,310.55	4.25	913,045.55	214,834.25	686,944.05
444	New York	Forty-second Street, Manhattanville and Saint Nicholas Avenue R'y Co.	5,250,484.54	9.41	5,042,884.89	535,907.00	2,698,532.40
445	New York	Harlem Bridge, Morrisania and Fordham R'y Co.	496,281.50	9.09	394,113.95	43,356.87	317,077.05
446	New York	Houston, West Street and Pavonia Ferry R. R. Co.	750,000.00	3.76	630,000.00	167,553.19	475,000.00
448	New York	Larchmont Horse R'y Co.	25,000.00	1.50	19,700.00	13,133.33	10,500.00
451	New York	Mount Vernon and East Chester R'y Co.	81,000.00		(c)		
452	New York	New Rochelle and Pelham R'y Co.	140,000.00	7.00	115,000.00	16,428.57	
454	New York	New York and Harlem R. R. Co. (St. R'y Div.)	21,453,646.66		(e)		
455	New York	Ninth Avenue R. R. Co.	313,738.06	8.00	187,937.23	23,492.15	178,664.60
456	New York	Pelham Park R. R. Co.	50,611.59	1.40	43,050.29	30,750.21	33,199.35
457	New York	Second Avenue R. R. Co.	3,691,661.98	13.50	3,128,830.09	231,765.19	1,945,047.63
458	New York	Sixth Avenue R. R. Co.	2,043,133.28	3.81	1,621,265.92	425,529.11	621,605.64
460	New York	Third Avenue R. R. Co.	3,513,452.12	8.25	2,824,320.33	342,341.86	1,443,166.40
461	New York	Twenty-third Street R'y Co.	1,271,156.90	7.67	856,201.50	124,629.04	451,334.57
462	Niagara Falls	Niagara Falls and Suspension Bridge R'y Co.	48,245.72	1.99	33,149.86	16,658.22	23,477.76
463	Ogdensburg	Ogdensburg Street R'y Co.	28,275.36	4.44	18,505.81	4,167.98	17,479.64
464	Olean	Olean Street R'y Co.	16,240.05	1.10	11,861.62	10,783.29	8,815.38
465	Oneida	Oneida R'y Co.	16,920.85	1.50	11,928.02	7,952.01	11,928.02
466	Oneonta	Oneonta Street R'y Co.	20,266.89	2.27	15,904.49	7,006.38	14,892.34
467	Oswego	Oswego Street R'y Co.	25,645.34	2.03	16,959.61	8,354.49	14,171.58
469	Rochester	Rochester R'y Co.	6,429,185.29		6,429,185.29		150,485.74
470	Rome	Rome City Street R'y Co.	176,689.33		(c)		
471	Schenectady	Schenectady Street R'y Co.	60,244.35	2.00	55,884.45	27,942.23	55,000.00
472	Stillwater	Stillwater and Mechanicsville Street R'y Co.	29,683.66	4.35	25,444.23	5,849.25	23,841.66
473	Syracuse	Central City R'y Co.	131,348.40	2.88	107,695.55	37,394.29	92,012.09
474	Syracuse	Fifth Ward R. R. Co.	67,632.70	2.95	52,103.17	17,662.09	38,876.95
475	Syracuse	Fourth Ward R'y Co.	65,066.60	2.75	52,307.25	19,020.82	45,433.75
476	Syracuse	Genesee and Water Street R. R. Co.	114,352.08	3.75	84,325.84	22,486.89	76,457.96
477	Syracuse	New Brighton and Onondaga Valley R. R. Co.	21,558.81	1.88	13,634.25	7,252.26	8,865.50
478	Syracuse	People's R. R. Co. of Syracuse	635,508.22		(a)		
479	Syracuse	Syracuse and Geddes R'y Co.	95,211.47	2.00	72,487.77	36,243.89	49,885.66
480	Syracuse	Syracuse and Onondaga R'y Co.	54,747.33	2.00	40,819.48	20,409.74	29,465.43
482	Syracuse	Woodlawn and Butternut Street R'y Co.	41,892.59	1.76	29,910.62	16,994.67	21,882.43
484	Troy	Troy and Albion Horse R. R. Co.	83,795.87	3.17	65,301.64	20,599.89	51,554.11
487	Utica	Utica and Mohawk R. R. Co.	83,409.62	2.75	62,730.82	22,811.21	40,335.24
NORTH CAROLINA.							
490	Charlotte	Charlotte Street R'y Co.	\$20,000.00		\$20,000.00		
491	Raleigh	Raleigh Street R'y Co.	46,000.00	5.00	32,000.00	6,400.00	30,000.00
OHIO.							
493	Bellaire	Bellaire Street R'y Co.	30,000.00	2.50	25,900.00	10,360.00	20,900.00
494	Berea	Berea Street R. R. Co.	13,600.00	1.15	12,000.00	10,434.78	8,000.00
497	Cincinnati	Cincinnati Street R'y Co.	4,909,476.20	46.02	4,402,724.73	95,669.81	3,253,139.03
498	Cincinnati	Mount Adams and Eden Park Inclined R'y	401,238.27		(a)		
505	Cleveland	Woodland Avenue and West Side Street R. R. Co.	1,193,971.35	22.00	1,005,389.35	45,699.52	885,662.11
506	Columbus	Columbus Consolidated Street R. R. Co.	1,639,874.14	16.50	1,484,910.60	89,994.58	1,365,178.68
507	Columbus	Glenwood and Greenlawn Street R'y Co.	39,211.48	4.50	34,459.61	7,657.69	25,789.46
509	Dayton	Dayton Street R. R. Co.	202,909.00	4.35	138,190.00	31,767.82	94,590.00
510	Dayton	Fifth Street R. R. Co.	375,000.00	4.50	300,000.00	66,666.67	
511	Dayton	Oakwood Street R'y Co.	223,350.00	2.75	167,800.00	61,018.18	137,000.00
512	Dayton	Wayne and Fifth Street R. R. Co.	59,170.00	4.00	45,320.00	11,330.00	
513	Findlay	Blanchard Avenue Street R'y Co.	38,500.00	5.00	35,000.00	7,000.00	30,000.00
514	Findlay	Findlay Street R'y Co.	102,024.95	8.00	83,774.95	10,471.87	
515	Findlay	Lima Avenue Street R'y Co.	220,000.00		220,000.00		

a Not given separately.

b Purchased in block.

c Land and buildings only reported.

d Equipment only.

e Cost of construction can not be separated from cost of steam freight road.

f Includes 4 miles leased line.

STREET RAILWAYS.

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TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

COST OF CONSTRUCTION AND REAL ESTATE—continued.				Miles of line operated.	COST OF EQUIPMENT.							No.
Right of way.	Land and buildings.	Acquisition of line not built by company.	Miscellaneous items of construction.		Total cost of equipment.		Passenger cars.	Other rolling stock.	Horses and mules.	Harness.	Miscellaneous items of equipment.	
					For all line operated.	Per mile operated.						
\$625.00	\$8,376.54			3.89	\$9,360.48	\$2,406.29	\$6,058.75	\$871.10	\$2,244.00	\$186.63		418
			\$49,849.32	1.15	694.40	603.83					\$694.40	420
1,445.00	1,613.44			2.50	2,409.10	963.64	1,700.00	49.10	600.00	60.00		421
	5,919.21		5,646.85	3.51	7,566.35	2,155.63					7,566.35	422
	400.00			1.14	3,959.00	3,472.81	779.00	1,330.00	1,350.00	500.00		423
	2,444.25			7.25	15,808.75	2,180.52	6,400.00	1,750.00	7,256.75	402.00		424
	6,366.67		1,221.64	3.37	14,616.77	4,337.32	8,507.43	291.19	5,232.75	595.40		426
631.50	3,839.77		679.73	4.08	5,725.62	1,403.34	2,746.00	400.00	2,352.34	227.28		427
	11,347.63			2.78	9,316.81	3,351.37	4,000.00	489.91	4,500.00	326.87		428
	2,641.28	\$25,000.00		2.99	11,576.06	3,871.59	6,324.41		4,616.35	116.25	519.05	429
			150,000.00	4.50	20,200.00	4,488.89	13,750.00	315.00	5,450.00	685.00		430
	57,843.73	322,556.45		18.75	104,879.63	5,593.58	53,990.45	5,130.97	40,332.22	5,425.99		431
			15,000.00	1.30	2,000.00	1,538.46					2,000.00	432
	2,000.00			1.75	3,300.00	1,885.71	3,300.00					433
					(a)							435
	1,120,115.39			11.69	530,377.78	45,370.21	208,100.00	831.53	321,446.25			436
200,000.00	181,629.81			2.04	78,753.87	38,604.84					78,753.87	437
	502,625.79			13.00	450,630.48	34,663.88	214,050.48		233,080.00	3,500.00		438
	65,494.57			2.33	66,711.00	28,631.33	35,325.00	700.00	27,690.00	2,996.00		439
					(a)							440
1,562,410.73	833,305.60			10.73	312,292.00	29,104.57	159,350.00	12,802.00	129,540.00	5,000.00	5,600.00	441
	854,090.07			10.00	272,073.62	27,207.36	151,683.62				120,390.00	442
	226,101.50			5.13	107,265.00	20,909.36	52,500.00	4,415.00	50,350.00			443
2,202,200.00	142,152.49			10.71	207,599.65	19,383.72	79,640.00	4,544.09	112,195.00		11,220.56	444
	77,036.90			9.09	102,167.55	11,239.55	52,812.55		46,350.00		3,005.00	445
	155,000.00			5.13	120,000.00	23,391.81	44,000.00	4,000.00	60,000.00	12,000.00		446
4,000.00	5,200.00			1.50	5,300.00	3,533.33	3,000.00	375.00	1,800.00	125.00		448
			115,000.00	7.00	25,000.00	3,571.43					25,000.00	451
				8.58	1,453,646.66	169,422.69	865,435.00	314,000.00	195,570.00		78,641.66	452
	9,272.63			8.00	125,800.83	15,725.10	47,800.83				78,000.00	455
4,939.98	2,489.25		2,421.71	3.00	7,561.30	2,520.43	5,474.28	218.28	1,663.90	204.84		456
	1,183,782.46			13.50	562,831.89	41,691.25	247,797.00	26,665.90	274,000.00	14,368.99		457
	999,660.28			4.56	421,867.36	92,514.77					421,867.36	458
	1,381,153.93			8.25	689,131.79	83,531.13	329,881.79				359,250.00	460
150,000.00	254,866.93			6.87	414,955.40	60,401.08	208,954.07				206,001.33	461
	9,672.10			1.99	15,095.86	7,585.86	8,266.44	402.63	5,865.14	561.65		462
	1,026.17			4.44	9,769.55	2,200.35	6,343.55				3,426.00	463
	3,046.24			1.10	4,378.43	3,980.39	1,990.61	694.87	1,360.00	332.95		464
				1.50	4,992.83	3,326.55	3,145.60	217.74	1,510.00	119.49		465
	1,012.15			2.27	4,362.40	1,921.76	2,892.50	196.00	1,204.00	69.90		466
25,670.78	2,788.03			2.03	8,685.73	4,278.68	4,027.30	412.18	3,775.00	471.25		467
	6,197.00	6,175,000.00	62,831.77		(h)							469
					(a)							470
	884.45			2.00	4,359.90	2,179.95			2,198.80	161.15	1,999.95	471
	1,602.57			4.35	4,239.43	974.58	3,000.00	274.73	889.70	75.00		472
743.20	14,940.26			2.88	23,652.85	8,212.80	12,530.77	1,934.49	8,285.00	902.59		473
	13,226.22			2.95	15,529.53	5,264.25	10,229.53		5,300.00			474
	6,250.49		623.01	2.80	12,759.35	4,556.91	4,415.37		6,830.56	397.39	1,116.03	475
	7,719.50		148.38	3.75	30,026.24	8,007.00	10,453.13	580.40	16,133.67	2,859.04		476
400.00	4,368.75			2.63	7,924.56	3,013.14					7,924.56	477
					(a)							478
27.00	22,575.11			2.00	22,723.70	11,361.85	13,285.22	692.54	7,853.71	760.23	132.00	479
	11,354.05			2.00	13,927.85	6,963.93	7,364.00	511.60	5,757.25	295.00		480
	8,028.19			2.19	11,981.97	5,471.22	5,381.46	1,063.42	5,025.00	512.09		482
	13,747.53			3.17	18,494.23	5,834.11	8,923.00	225.00	8,744.72	300.75	300.76	484
	22,395.58			2.75	20,678.80	7,519.56	16,374.07	200.03	3,826.20	278.50		487
					(i)							490
	20,000.00	2,000.00		5.00	14,000.00	2,800.00	8,000.00		5,000.00		1,000.00	491
	5,000.00			2.50	4,100.00	1,640.00	1,000.00	100.00	2,500.00	500.00		493
	4,000.00			1.15	1,600.00	1,391.30	1,200.00		400.00			494
619,484.69			530,101.01	46.02	506,751.47	11,011.55	293,812.75		174,019.00		39,419.72	497
					(a)							498
119,727.24				22.00	188,582.00	8,571.91	69,685.00	6,500.00	89,125.00	5,887.00	17,385.00	505
	119,731.92			16.50	154,963.54	9,391.73	106,609.02		48,354.52			506
	8,670.15			4.50	4,751.87	1,055.97					4,751.87	507
43,600.00				4.35	64,719.00	14,877.93	25,766.00		37,453.00	1,500.00		509
	30,800.00		300,000.00	4.50	75,000.00	16,666.67					75,000.00	510
				2.75	55,550.00	20,200.00	20,000.00	750.00	34,000.00	800.00		511
			45,320.00	4.00	13,850.00	3,462.50					13,850.00	512
	5,000.00			5.00	3,500.00	700.00	1,300.00		2,000.00	200.00		513
			83,774.95	8.00	18,250.00	2,281.25	8,400.00		9,600.00	250.00		514
					(i)							515

g Includes equipment.
 h Included in cost of construction.

i Not given.
 j Acquisition only reported.

STATISTICS OF TRANSPORTATION.

TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued

No.	STATES AND CITIES.	Name of road.	Total cost of road and equip- ment.	Miles of line owned.	COST OF CONSTRUCTION AND REAL ESTATE.		
					Total cost of construction and real estate.		Roadbed and track.
					For all line owned.	Per mile owned.	
OHIO—continued.							
516	Findlay	Wyoming Place and Findlay Street R'y Co	\$5,000.00	1.25	\$4,750.00	\$3,800.00	\$4,250.00
520	Lorain	Lorain Street R'y Co	11,331.51	1.36	9,221.51	6,780.52	8,221.51
522	Middletown	Middletown and Madison Street R'y Co	15,000.00	1.50	12,000.00	8,000.00	
524	Newark	Newark City R'y Co	77,160.00	4.00	53,000.00	13,250.00	50,000.00
527	Sandusky	Sandusky Street R'y Co	67,094.98	4.00	56,698.49	14,174.62	53,352.11
531	Toledo	Toledo Consolidated Street R'y Co	1,118,717.93	32.09	974,500.18	30,367.72	829,268.59
532	Youngstown	Youngstown Street R. R. Co	38,000.00	2.00	32,420.00	16,210.00	27,420.00
533	Zanesville	Zanesville and McIntire Street R'y Co	50,000.00		(a)		
OREGON.							
534	Albany	Albany Street R'y Co	12,875.00	0.80	8,000.00	10,000.00	6,000.00
535	Astoria	Astoria Street R'y Co	52,904.31	3.00	44,391.33	14,797.11	20,611.55
541	Portland	Portland Street R'y Co	39,000.00	1.82	27,000.00	14,835.16	25,000.00
542	Portland	Transcontinental Street R'y Co	169,960.09	7.56	113,659.03	15,034.26	95,625.14
PENNSYLVANIA.							
545	Altoona	City Passenger R'y Co	80,050.00	3.33	56,949.63	17,101.99	
546	Beaver Falls	Beaver Valley Street R'y Co	53,759.83	3.10	39,481.03	12,735.82	31,688.39
547	Bradford	Bradford and Kendall Street R'y Co	18,491.41		(a)		
548	Chester	Chester Street R'y Co	120,744.34	7.25	88,217.37	12,167.91	66,656.46
549	Easton	Easton, South Easton and West End Passenger R'y Co	151,335.36	4.00	125,953.71	31,488.43	
553	Harrisburg	Harrisburg City Passenger R'y Co	159,762.94	5.33	92,109.57	17,281.35	
554	Lancaster	Lancaster and Millersville R. R. Co	48,449.78	5.50	44,191.43	8,034.81	40,191.43
555	Lancaster	Lancaster City Street R'y Co	76,084.52	4.00	57,011.52	14,252.88	46,011.52
556	Lancaster	West End Street R'y Co	6,226.08	1.03	2,922.86	2,837.73	
558	Norristown	Citizens' Passenger R'y Co	51,398.51	3.00	36,739.63	12,246.54	28,063.02
559	Norristown	Norristown Passenger R'y Co	44,509.34	4.00	31,828.88	7,957.22	28,207.10
560	Philadelphia	Catharine and Bainbridge Street R. R. Co	286,417.50		(a)		
561	Philadelphia	Citizens' Passenger R'y Co	498,750.13	10.50	317,817.94	30,268.38	131,202.38
563	Philadelphia	Empire Passenger R'y Co	811,038.95		(a)		
565	Philadelphia	Hestonville, Mantua and Fairmount Passenger R. R. Co	870,052.50	8.75	729,324.00	83,351.31	410,212.26
567	Philadelphia	Lombard and South Streets Passenger R'y Co	757,707.39	19.50	682,646.65	35,007.52	589,338.77
568	Philadelphia	Manayunk and Roxboro Incline Plane and R'y Co	82,979.76	5.42	64,183.89	11,842.05	51,713.07
569	Philadelphia	People's Passenger R'y Co	417,183.64		(a)		
570	Philadelphia	Philadelphia and Grays Ferry Passenger R'y Co	249,514.40		(a)		
571	Philadelphia	Philadelphia City Passenger R'y Co	875,842.88	(b)	650,748.38		276,465.57
573	Philadelphia	Ridge Avenue Passenger R'y Co	582,933.50	15.00	497,633.50	33,175.57	
574	Philadelphia	Second and Third Streets Passenger R'y Co	952,827.56		(a)		
576	Philadelphia	Thirteenth and Fifteenth Streets Passenger R'y Co	504,529.44	13.25	407,034.44	30,719.58	241,071.86
580	Pittsburg	Citizens' Traction Co	63,144.01	6.50	44,144.01	6,791.39	
585	Pittsburg	Mount Oliver Incline R'y Co	30,533.99	1.29	21,733.99	16,848.05	16,133.99
587	Pittsburg	Pittsburg, Allegheny and Manchester Passenger R'y Co	459,566.49	5.16	369,811.49	71,668.89	112,312.94
588	Pittsburg	Pittsburg and Birmingham Passenger R. R. Co	245,172.88	3.70	192,089.08	51,915.97	128,289.08
590	Pittsburg	Pittsburg and West End Passenger R'y Co	174,157.81	5.25	137,836.60	26,254.59	110,748.38
593	Pittsburg	Pittsburg Union Passenger R'y Co	146,034.29	4.06	100,076.69	24,649.43	77,229.85
596	Pittsburg	South Side Passenger R'y Co	81,851.13	3.00	51,384.06	17,128.02	
598	Pittston	Pittston Street Car Co	41,200.00	1.75	35,000.00	20,000.00	
601	Reading	Reading City Passenger R'y Co	384,372.82	16.50	317,966.62	19,270.70	265,275.75
603	Stroudsburg	Stroudsburg Passenger R'y Co	25,600.00	1.38	22,100.00	16,014.49	15,000.00
605	Wilkesbarre	Coalville Passenger R. R. Co	78,971.34	2.50	70,403.09	28,161.24	43,353.28
606	Wilkesbarre	Wilkesbarre and Kingston Passenger R'y Co	111,030.82	4.00	95,711.31	23,927.83	80,711.31
609	Williamsport	Williamsport Passenger R'y Co	142,842.59	4.92	132,328.52	26,896.04	
610	York	York Street R'y Co	70,174.11	5.00	54,172.59	10,834.52	42,941.15
RHODE ISLAND.							
612	Pawtucket	Pawtucket Street R'y Co	210,633.31	7.10	166,446.49	23,443.17	110,195.31
613	Providence	Providence Cable Tramway Co	70,777.02	(d)	26,332.21		
614	Providence	Union R. R. Co	1,755,361.63	41.95	1,324,922.51	31,583.37	781,455.30
615	Woonsocket	Woonsocket Street R'y Co	54,725.00	5.40	39,000.00	7,222.22	
SOUTH CAROLINA.							
616	Charleston	Charleston City R'y Co	200,000.00	13.00	170,500.00	13,115.38	135,500.00
617	Charleston	Enterprise R. R. Co	292,129.73		(a)		
618	Charleston	Middle Street Sullivan's Island R'y Co	15,000.00	2.00	8,600.00	4,300.00	8,000.00
619	Greenville	Street R'y Co. of the City of Greenville	5,300.00		5,300.00		
620	Orangeburg	Orangeburg City Street R'y Co	11,000.00	1.25	8,300.00	6,640.00	8,000.00
SOUTH DAKOTA.							
621	Deadwood	Deadwood Street R'y Co	17,000.00	1.75	12,250.00	7,000.00	12,000.00
622	Pierre	Pierre City R'y Co	62,000.00	4.10	54,000.00	13,170.73	30,000.00
623	Rapid city	Rapid City Street R. R. Co	5,246.97	1.50	3,440.00	2,293.33	2,890.00
624	Sioux Falls	Sioux Falls City Street R'y Co	72,700.00	8.00	64,000.00	8,000.00	40,000.00
627	Yankton	Yankton Street R'y Co	7,400.00	2.00	5,500.00	2,750.00	5,000.00
TENNESSEE.							
628	Bristol	Bristol Street Car Co	12,000.00		(a)		
630	Chattanooga	City Street R. R. Co	602,000.00	7.24	567,000.00	78,314.92	501,000.00
631	Clarksville	Clarksville Street R'y Co	10,968.53	1.75	6,743.68	3,853.53	6,156.55
632	Cleveland	Cleveland Street R'y Co	4,500.00	1.50	3,080.00	2,053.33	

a Not given separately.

b Reported by Philadelphia Traction Co.

c Operated by Philadelphia Traction Co.

STREET RAILWAYS.

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TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

COST OF CONSTRUCTION AND REAL ESTATE—continued.				Miles of line oper- ated.	COST OF EQUIPMENT.							No.
Right of way.	Land and buildings.	Acquisition of line not built by com- pany.	Miscellane- ous items of construction.		Total cost of equipment.		Passenger cars.	Other roll- ing stock.	Horses and mules.	Harness.	Miscella- neous items of equip- ment.	
					For all line operated.	Per mile operated.						
	\$500.00			1.25	\$250.00	\$200.00	\$200.00			\$50.00		516
	1,000.00			1.36	2,110.00	1,551.47	950.00		\$1,085.00	75.00		520
			\$12,000.00	1.50	3,000.00	2,000.00					\$3,000.00	522
	3,000.00			4.00	24,160.00	6,040.00	12,000.00	\$160.00	10,000.00	2,000.00		524
	3,346.38			4.00	10,396.49	2,599.12	5,510.68		4,548.05	337.76		527
	136,649.86		8,581.73	32.09	144,217.75	4,494.16	77,473.83		64,124.70	2,619.22		531
	5,000.00			2.00	5,580.00	2,790.00	3,600.00		1,800.00	180.00		532
					(a)							533
				0.80	4,875.00	6,093.75	2,000.00	2,500.00	350.00	25.00		534
\$14,858.75	8,921.03			3.00	8,512.98	2,837.66	5,903.93		1,857.50	251.55		535
	2,000.00			1.82	12,000.00	6,593.41	6,400.00		5,400.00	200.00		541
	18,033.89			7.56	56,301.06	7,447.23					56,301.06	542
			56,949.63	3.33	23,100.37	6,937.05					23,100.37	545
	7,792.64			3.10	14,278.80	4,606.06	7,312.89		5,872.34	303.25	790.32	546
					(a)							547
	21,560.91			7.25	32,526.97	4,486.48					32,526.97	548
			125,953.71	4.00	25,381.65	6,345.41					25,381.65	549
			92,109.57	5.33	67,653.37	12,692.94					67,653.37	553
	4,000.00			5.50	4,258.35	774.25					4,258.35	554
	11,000.00			5.50	19,073.00	3,467.82					19,073.00	555
			2,922.86	1.78	3,303.22	1,855.74	1,400.00	503.22	1,300.00	100.00		556
	8,676.61			3.00	14,658.88	4,886.29	6,839.64		7,047.50	771.74		558
	3,621.78			4.00	12,680.46	3,170.12	4,200.00				8,480.46	559
					(a)							560
	186,615.56			10.50	180,932.19	17,231.64	75,000.00	12,500.00	76,600.00	16,832.19		561
					(a)							563
	319,111.74			10.00	140,728.50	14,072.85					140,728.50	565
	93,307.88			19.50	75,060.74	3,849.27					75,060.74	567
	12,470.82			5.42	18,795.87	3,467.87	4,274.67	958.41	11,818.01	1,744.78		568
					(a)							569
	374,282.81			(c)	225,094.50		118,093.50				107,001.00	570
			497,633.50	15.00	85,300.00	5,686.67	45,000.00	1,000.00	38,300.00	1,000.00		573
					(a)							574
	165,962.58			14.00	97,495.00	6,963.93	51,100.00				46,395.00	576
			44,144.01	6.50	19,000.00	2,923.08	9,000.00	10,000.00				580
	5,600.00			1.29	8,800.00	6,821.71	4,000.00		4,400.00	400.00		585
												587
100,000.00	157,498.55			5.16	89,755.00	17,394.38	40,330.00		47,625.00	1,800.00		588
	63,800.00			3.70	53,083.80	14,346.97	30,000.00				23,083.80	589
	10,115.05			5.25	36,321.21	6,918.33	17,001.21				19,320.00	590
	20,800.22		2,046.62	4.06	45,957.60	11,319.61	24,638.60	644.00	19,875.00	800.00		593
			51,384.06	3.00	30,467.07	10,155.69					30,467.07	596
			35,000.00	1.75	6,200.00	3,542.86	3,500.00		2,500.00	200.00		598
	52,690.87			16.50	66,406.20	4,024.62	26,800.00	2,385.00	35,000.00	2,221.20		601
	5,900.00			1.38	3,500.00	2,536.23	1,600.00	550.00	1,200.00	150.00		603
												605
	27,049.81			2.50	8,568.25	3,427.30	4,651.73		3,494.99	421.53		606
	15,000.00			4.00	15,319.51	3,829.88	11,369.51		3,500.00	450.00		609
			132,328.52	4.92	10,514.07	2,137.01	5,550.00	1,039.07	3,750.00	175.00		610
	11,231.44			5.00	16,001.52	3,200.30	10,000.00		6,001.52			611
												612
	56,251.18			7.10	44,186.82	6,223.50	22,800.00		16,537.70	2,473.80	2,375.32	613
	19,867.93		6,464.28	2.50	44,444.81	17,777.92	25,740.00		16,380.00	1,328.47	996.34	614
	543,467.21			41.95	430,439.12	10,260.77	287,965.42		132,462.32	10,011.38		615
			39,000.00	5.40	15,725.00	2,912.04	8,475.00	1,000.00	6,250.00			616
												617
	35,000.00			13.00	29,500.00	2,269.23	13,500.00	500.00	15,000.00	500.00		618
					(a)							619
	600.00			2.00	6,400.00	3,200.00	5,550.00		800.00	50.00		620
		e\$5,300.00			(f)							621
	300.00			1.25	2,700.00	2,160.00					2,700.00	622
												623
	250.00			1.75	4,750.00	2,714.29	4,000.00	100.00	450.00	200.00		624
10,000.00	14,000.00			4.10	8,000.00	1,951.22					8,000.00	625
	550.00			1.50	1,806.97	1,204.65	1,416.97		300.00	90.00		626
	24,000.00			8.00	8,700.00	1,087.50	4,200.00	300.00	4,000.00	200.00		627
	500.00			2.00	1,900.00	950.00	1,000.00		800.00	100.00		628
					(a)							629
				7.24	35,000.00	4,834.25	27,000.00	2,000.00	5,000.00	1,000.00		630
3,000.00	63,000.00			1.75	4,224.85	2,414.20	2,134.70		1,936.95	153.20		631
	587.13		3,080.00	1.50	1,420.00	946.67					1,420.00	632

d Track owned by Union R. R. Co.

e Includes equipment.

f Included in cost of construction and real estate.

STATISTICS OF TRANSPORTATION.

TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	Total cost of road and equip- ment.	Miles of line owned.	COST OF CONSTRUCTION AND REAL ESTATE.		
					Total cost of construction and real estate.		Roadbed and track.
					For all line owned.	Per mile owned.	
TENNESSEE—cont'd.							
633	Columbia	Columbia Street R'y Co	\$28,850.00	2.50	\$25,000.00	\$10,000.00	\$20,000.00
634	Jackson	Jackson and Suburban Street R. R.	49,763.25		(a)		
636	Knoxville	West End Street R. R. Co	16,132.59	1.75	11,307.11	6,461.21	7,900.74
638	Murfreesboro	Murfreesboro Street Car R'y Co	16,850.00	3.00	13,000.00	4,333.33	12,000.00
TEXAS.							
642	Corsicana	Corsicana Street R'y Co	30,000.00		(a)		
643	Denison	Denison Street R'y	19,090.00	4.00	11,500.00	2,875.00	9,000.00
644	El Paso	El Paso Street R'y Co	90,000.00		(a)		
645	El Paso	Santa Fe Street R'y Co	32,638.17	1.00	27,859.24	27,859.24	11,304.26
648	Gainesville	Gainesville Street R'y Co	33,600.00	3.50	26,800.00	7,657.14	
649	Galveston	Galveston City R. R. Co	588,328.41	29.89	513,951.51	17,194.76	313,390.69
650	Houston	Bayou City Street R'y Co	130,000.00		(a)		
651	Houston	Houston City Street R'y Co	264,095.41	15.35	149,173.59	9,718.15	
653	Longview	Longview and Junction R'y Co	4,850.00	0.75	3,075.00	4,100.00	
654	Marshall	Marshall Street Railway and Transportation Co	7,500.00	0.75	7,500.00	10,000.00	3,000.00
655	Paris	Paris R'y Co	44,750.00	4.00	35,000.00	8,750.00	25,000.00
658	Sherman	Sherman City R. R. Co	3,200.00	3.75	2,500.00	666.67	
660	Waco	Waco Street R'y Co	80,000.00	9.00	65,500.00	7,277.78	45,500.00
661	Waxahachie	Waxahachie Street R'y Co	12,750.00	2.00	10,550.00	5,275.00	10,000.00
662	Weatherford	Weatherford City and Suburban R. R. Co	7,243.00	2.00	5,300.00	2,650.00	
VERMONT.							
664	Burlington	Winooski and Burlington Horse R. R. Co	61,946.10	6.00	47,446.10	7,907.68	30,000.00
665	Rutland	Rutland Street R'y Co	78,920.00	7.33	67,300.00	9,181.45	65,000.00
VIRGINIA.							
666	Charlottesville	Charlottesville and University Street R'y Co	9,870.00	1.50	6,550.00	4,366.67	5,000.00
668	Lynchburg	Lynchburg Street R'y Co	32,988.89	3.25	19,472.99	5,991.69	17,992.07
669	Norfolk	Berkley Street R'y Co	6,290.09	1.25	5,622.34	4,497.87	
670	Norfolk	Norfolk City R. R. Co	155,016.46	4.25	145,572.88	34,252.44	
671	Norfolk	Suburban and City Railway and Improvement Co	69,788.86		(a)		
673	Richmond	Richmond and Manchester R'y Co	89,600.00	2.50	73,000.00	29,200.00	70,000.00
675	Roanoke	Roanoke Street R'y Co	106,063.68	4.00	102,963.68	25,740.92	32,859.04
WASHINGTON.							
676	Olympia	Olympia R'y Co	11,350.00	0.75	10,000.00	13,333.33	
684	Spokane	Spokane Street R'y Co	100,000.00		(a)		
685	Wallawalla	Wallawalla Street Railway and Investment Co	76,054.78	3.50	69,265.58	19,790.17	18,577.00
WEST VIRGINIA.							
687	Parkersburg	Park City Street R'y	32,000.00	4.00	25,500.00	6,375.00	21,500.00
WISCONSIN.							
693	Fond du Lac	Fond du Lac Street R'y Co	31,920.34	3.68	24,624.96	6,691.57	19,862.71
694	Lacrosse	Lacrosse and Onalaska Street R'y Co	21,700.00	2.88	20,000.00	6,944.44	
695	Lacrosse	Lacrosse City R'y Co	86,194.03	6.51	56,576.91	8,690.77	47,240.43
696	Madison	Madison City R'y Co	43,300.00	7.25	35,000.00	4,827.59	25,000.00
699	Milwaukee	Milwaukee City R. R. Co	2,533,486.80	17.86	2,320,026.74	129,900.71	
702	Oshkosh	Oshkosh Street R. R. Co	110,000.00	8.00	95,000.00	11,875.00	80,000.00
703	Racine	Belle City Street R'y Co	100,000.00	4.50	84,700.00	18,822.22	64,000.00
WYOMING.							
706	Cheyenne	Cheyenne Street R. R. Co	80,300.00	4.75	69,885.00	14,712.63	26,000.00

a Not given separately.

b Including \$4,022.92, cost of miscellaneous construction, not included in Table 8.

c Construction and real estate only.

STREET RAILWAYS.

65

TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

COST OF CONSTRUCTION AND REAL ESTATE—continued.					COST OF EQUIPMENT.							No.
Right of way.	Land and buildings.	Acquisition of line not built by company.	Miscellaneous items of construction.	Miles of line operated.	Total cost of equipment.		Passenger cars.	Other rolling stock.	Horses and mules.	Harness.	Miscellaneous items of equipment.	
					For all line operated.	Per mile operated.						
	\$5,000.00			2.50	\$3,850.00	\$1,540.00	\$3,000.00		\$700.00	\$150.00		633
	3,406.37			1.75	(a) 4,825.48	2,757.42	2,319.87	\$110.00	2,305.00	90.61		634
	1,000.00			3.00	3,850.00	1,283.33	1,750.00	150.00	1,800.00	150.00		636
												638
					(a)							642
	2,500.00			4.00	7,590.00	1,897.50	5,400.00		2,040.00	150.00		643
					(a)							644
\$1,402.88	11,129.18		\$4,022.92	1.00	4,778.93	4,778.93	3,862.19		852.35	64.39		645
			26,800.00	3.50	6,800.00	1,942.86					\$6,800.00	648
114,000.00	86,560.82			29.89	74,376.90	2,488.35	55,175.25		18,311.70	889.95		649
					(a)							650
			149,173.59	15.35	114,921.82	7,486.76					114,921.82	651
			3,075.00	0.75	1,775.00	2,366.67	1,500.00		225.00	50.00		653
	4,500.00				(d)							654
	5,000.00		5,000.00	4.00	9,750.00	2,437.50	5,000.00	250.00	4,000.00	500.00		655
			2,500.00	3.75	700.00	186.67					700.00	658
	20,000.00			9.00	14,500.00	1,611.11	10,000.00	200.00	4,000.00	300.00		660
	550.00			2.00	2,200.00	1,100.00	1,300.00	100.00	700.00	100.00		661
			5,300.00	2.00	1,943.00	971.50	1,555.00		300.00	28.00	60.00	662
	17,446.10			6.00	14,500.00	2,416.67	9,000.00		5,000.00	500.00		664
	2,300.00			7.33	11,620.00	1,585.27	7,000.00		4,350.00	270.00		665
	1,550.00			1.50	3,320.00	2,213.33	1,600.00		1,600.00	120.00		666
	1,480.92			3.25	13,515.90	4,158.74	6,341.66		6,739.99	434.25		668
			5,622.34	1.25	667.75	534.20					667.75	669
			145,572.88	4.25	9,443.58	2,222.02	3,362.58		4,631.25	1,449.75		670
					(a)							671
107.84	3,000.00			2.50	16,600.00	6,640.00	7,000.00	100.00	9,000.00	500.00		673
	69,996.80			4.00	3,100.00	775.00	500.00		2,500.00	100.00		675
			10,000.00	0.75	1,350.00	1,800.00	600.00		600.00	150.00		676
					(a)							684
	688.58		50,000.00	3.50	6,789.20	1,939.77	4,099.40	150.00	2,321.50	218.30		685
	4,000.00			4.00	6,500.00	1,625.00	3,200.00	300.00	2,800.00	200.00		687
1,000.00	3,762.25			3.68	7,295.38	1,982.44	3,200.00	474.00	3,261.10	360.28		693
			20,000.00	2.88	1,700.00	590.28	800.00		850.00	50.00		694
	9,336.48			6.51	29,617.12	4,549.48	15,744.89		9,970.56	3,901.67		695
	10,000.00			7.25	8,300.00	1,144.83	2,900.00		4,500.00	900.00		696
			2,320,026.74	17.86	213,460.06	11,951.85					213,460.06	699
	15,000.00			8.00	15,000.00	1,875.00	7,000.00	1,000.00	4,000.00	1,000.00	2,000.00	702
5,700.00	15,000.00			4.50	15,300.00	3,400.00	6,000.00	300.00	8,000.00	1,000.00		703
38,885.00	5,000.00			4.75	10,415.00	2,192.63	8,200.00		2,090.00	125.00		706

d Cost of equipment not given.

e Includes "equipment", which is represented by item "other permanent investment" in Table 8.

STATISTICS OF TRANSPORTATION.

TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS.

No.	STATES AND CITIES.	Name of road.	Total cost of road and equip- ment.	Miles of line owned.	COST OF CONSTRUCTION AND REAL ESTATE.		
					Total cost of construction and real estate.		Roadbed and track.
					For all line owned.	Per mile owned.	
CALIFORNIA.							
28	Los Angeles	Los Angeles Electric R'y Co	\$225,000.00	8.00	\$131,000.00	\$16,375.00	\$60,000.00
71	San Jose	San Jose and Santa Clara R'y Co	120,000.00	5.75	100,000.00	17,391.30	50,000.00
COLORADO.							
79	Denver	Colfax Avenue Electric R. R. Co	77,900.00	6.00	59,000.00	9,833.33	31,500.00
83	Denver	Denver Tramway Co	765,149.64	13.75	617,096.22	44,879.73	501,663.64
84	Denver	University Park Railway and Electric Co	56,658.42	3.62	39,071.19	10,793.15	21,444.40
CONNECTICUT.							
87	Birmingham	Derby Street R'y Co	95,225.16	2.80	73,271.66	26,168.45	41,935.27
DELAWARE.							
104	Wilmington	Wilmington City R'y Co	110,762.94	3.00	80,577.15	26,859.05	58,266.20
DIST. OF COLUMBIA.							
109	Washington	Eckington and Soldiers' Home R'y Co	306,712.52	4.00	(a)	43,725.50	75,444.43
110	Washington	Georgetown and Tennallytown R'y Co	185,265.05		174,902.00		
GEORGIA.							
121	Atlanta	Atlanta and Edgewood Street R. R. Co	89,600.00	2.00	65,000.00	32,500.00	50,000.00
123	Atlanta	Fulton County Street R. R. Co	316,351.54	9.42	232,801.15	24,713.50	120,462.72
ILLINOIS.							
150	Decatur	Citizens' Electric Street R'y Co	136,550.71	6.00	119,322.75	19,887.13	61,136.51
151	East Saint Louis	Saint Louis and East Saint Louis Electric R'y Co	75,000.00	1.00	40,000.00	40,000.00	
156	Moline	Moline Central Street R'y Co	47,500.00	2.88	37,900.00	13,159.72	28,000.00
157	Ottawa	Ottawa Electric Street R'y Co	120,000.00	6.25	(a)	81,856.80	214,605.00
158	Peoria	Central R'y Co	634,586.00		511,605.00		
INDIANA.							
166	Elkhart	Citizens' Street R'y Co	36,419.48	7.00	26,436.88	3,776.70	22,436.88
174	Lafayette	Lafayette Street R'y Co	255,000.00	4.00	235,000.00	58,750.00	
181	Richmond	Richmond City R'y Co	156,000.00	3.00	115,000.00	38,333.33	95,000.00
IOWA.							
191	Council Bluffs	Omaha and Council Bluffs Railway and Bridge Co	767,892.00	9.74	647,192.00	66,446.82	371,750.00
193	Davenport	Davenport Central R'y Co	120,700.00	2.88	96,300.00	33,437.50	62,500.00
202	Ottumwa	Ottumwa Railway, Electric and Steam Co	129,000.00	4.50	104,500.00	23,222.22	45,000.00
205	Sioux city	Sioux City Street R'y Co	475,000.00	8.00	375,000.00	46,875.00	345,000.00
KANSAS.							
222	Topeka	Topeka Rapid Transit R'y Co	592,214.36	16.50	460,155.31	27,888.20	198,486.58
MARYLAND.							
247	Baltimore	North Avenue R'y Co. of Baltimore City	22,684.16	1.63	18,684.16	11,462.67	11,288.26
MASSACHUSETTS.							
249	Attleboro	Attleboro, North Attleboro and Wrentham Street R'y Co	115,694.20	6.00	69,736.91	11,622.82	42,531.05
250	Beverly	Beverly and Danvers Street R'y Co	39,104.52	3.09	26,756.73	8,659.14	20,015.25
252	Boston	Boston and Revere Electric Street R'y Co	85,050.23	2.19	75,240.23	34,356.27	
257	Boston	Quincy and Boston Street R'y Co	75,815.58	3.61	43,522.81	12,056.18	
261	Brockton	East Side Street R'y Co	65,368.44	4.25	34,393.02	8,092.48	24,613.31
268	Lowell	Lowell and Dracut Street R'y Co	101,546.33	5.03	56,739.97	11,280.31	39,674.83
270	Marlboro	Marlboro Street R'y Co	105,935.41	2.51	83,657.36	33,329.63	47,288.93
273	Newburyport	Newburyport and Amesbury Horse R. R. Co	104,213.71	4.06	91,313.71	22,491.06	78,813.71
274	North Adams	Hoosac Valley Street R'y Co	128,098.37	5.93	100,722.63	16,985.27	62,654.75
278	Plymouth	Plymouth and Kingston Street R'y Co	54,269.07	4.25	48,906.07	11,507.31	
MICHIGAN.							
283	Adrian	Adrian City Electric Belt R'y Co	49,063.37	2.80	38,063.37	13,594.06	32,063.37
284	Bay city	West Bay City Street R'y Co	150,000.00	8.00	(a)	9,859.74	54,584.22
287	Detroit	East Detroit and Grossepoint R'y Co	85,175.64		49,235.43		
289	Detroit	Highland Park R'y Co	60,693.37	3.50	49,235.43	14,067.27	
293	Muskegon	Muskegon R'y Co	116,218.29	6.00	104,230.79	17,371.80	
294	Port Huron	Gratiot Electric R'y Co	56,712.97	5.25	40,000.00	7,619.05	28,750.00
297	Sault Ste. Marie	Sault Ste. Marie Street R'y Co	48,550.00	4.00	33,600.00	8,400.00	17,000.00
MISSOURI.							
318	Kansas city	Metropolitan Street R'y Co	266,730.10	4.11	199,224.38	48,473.09	124,041.82
319	Kansas city	North East Street R'y Co	170,799.90	3.50	118,351.57	33,814.73	68,213.22
323	Kansas city	Vine Street Motor R'y Co	121,000.00	3.00	100,000.00	33,333.33	
324	Saint Joseph	People's Street Railway and Electric Light and Power Co	215,100.00	7.00	150,600.00	21,514.29	100,000.00
325	Saint Joseph	Wyatt Park R'y Co	253,320.00	6.38	232,720.00	36,476.49	131,600.00
NEW JERSEY.							
368	Asbury Park	Seashore Electric R'y Co	309,393.93		(a)		

a Not given separately.

STREET RAILWAYS.

67

TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS.

COST OF CONSTRUCTION AND REAL ESTATE—continued.					Miles of line oper- ated.	COST OF EQUIPMENT.						No.
Right of way.	Electrical street construc- tion (posts, wires, etc.).	Power plant, land, and buildings.	Acquisition of line not built by com- pany.	Miscellane- ous items of construction.		Total cost of equipment.		Passenger cars.	Other roll- ing stock.	Motors, trolleys, and fit- tings.	Miscella- neous items of equip- ment.	
						For all line operated.	Per mile operated.					
\$7,000.00	\$12,000.00 10,000.00	\$52,000 00 40,000.00			8.00 5.75	\$94,000.00 20,000.00	\$11,750.00 3,478.26	\$30,000.00	\$6,000.00	\$58,000.00	\$20,000.00	28 71
2,000.00	12,500.00 7,679.82	13,000.00 115,432.58 9,946.97			6.00 13.75 3.62	18,900.00 148,053.42 17,587.23	3,150.00 10,767.52 4,858.35	4,800.00 83,126.15 3,667.80	2,500.00	11,600.00 64,927.27 13,919.43		79 83 84
1,242.29	4,543.95	25,550.15			3.00	21,953.50	7,317.83	6,409.11	5,890.98	9,653.41		87
		22,310.95			3.00	30,185.79	10,061.93	11,000.00		19,185.79		104
166.00	48,000.00	51,291.57			4.00	(a) 10,363.05	2,590.76				10,363.05	109 110
2,000.00	8,000.00 36,085.16	7,000.00 74,253.27			2.00 9.42	24,600.00 83,550.39	12,300.00 8,869.47	9,600.00		9,000.00	6,000.00 83,550.39	121 123
	39,815.95	18,370.29			6.00	17,227.96	2,871.33	17,227.96				150
	5,400.00	4,500.00		\$40,000.00	1.00	35,000.00	35,000.00				35,000.00	151
					2.88	9,600.00	3,333.33	3,000.00		6,600.00		156
	24,000.00	273,000.00			6.25	(a) 122,981.00	19,676.96	44,900.00		78,081.00		157 158
				4,000.00	7.00	9,982.60	1,426.09				9,982.60	166
		20,000.00		235,000.00	4.00	20,000.00	5,000.00				20,000.00	174
					3.00	41,000.00	13,666.67	11,000.00		30,000.00		181
		99,442.00		176,000.00	10.68	120,700.00	11,301.50				120,700.00	191
	6,000.00	27,800.00			2.88	24,400.00	8,472.22	9,400.00		15,000.00		193
	6,000.00	35,000.00	\$18,500.00		4.50	24,500.00	5,444.44	6,000.00		18,500.00		202
		30,000.00			8.00	100,000.00	12,500.00				100,000.00	205
28,000.00	34,400.00	199,268.73			16.50	132,059.05	8,003.58	30,000.00	1,000.00	101,059.05		222
913.48	2,500.00	3,982.42			1.63	4,000.00	2,453.99	1,600.00		2,400.00		247
1,500.00	16,166.52	4,685.23 6,741.48 4,884.60 7,459.98 2,607.71		4,854.11	6.00 4.44 2.19 7.87 4.25	45,957.29 12,347.79 9,810.00 32,292.77 30,975.42	7,659.55 2,781.03 4,479.45 4,103.27 7,288.33	9,196.95 12,000.00	652.70 125.00	23,598.58 222.79	12,509.06	249 250 252 257 261
	17,065.14	4,669.09		31,699.34	5.03	44,806.36	8,907.83	15,275.70		29,530.66		268
		2,500.00			2.51	22,278.05	8,875.72				22,278.05	270
	10,000.00	7,100.00		800.00	4.06	12,900.00	3,177.34	12,900.00				273
	30,167.88			48,906.07	5.93	27,375.74	4,616.48	7,243.58	5,132.16	15,000.00		274
					4.25	5,363.00	1,261.88	4,988.00	375.00			278
		6,000.00			2.80	11,000.00	3,928.57	3,000.00		8,000.00		283
2,877.83	21,415.88			49,235.43	9.15	(a) 6,297.71	688.27				6,297.71	284 287
				104,230.79	3.50	11,457.94	3,273.70				11,457.94	289
5,587.56	3,662.44 4,500.00	2,000.00 12,100.00			6.00 5.25 4.00	11,987.50 16,712.97 14,950.00	1,997.92 3,183.42 3,737.50	6,000.00 8,800.00		10,712.97 6,150.00		293 294 297
26,902.12	17,588.76 9,223.92	20,468.94 33,539.61		1,222.74 7,374.82 100,000.00	4.11 3.50 3.00 7.00 6.38	67,505.72 52,448.33 21,000.00 64,500.00 20,600.00	16,424.75 14,985.24 7,000.00 9,214.29 3,228.84	38,516.86 8,499.91 23,500.00	915.60	28,073.26 42,718.81 40,000.00	1,229.61 21,000.00 20,600.00	318 319 323 324 325
3,320.00	14,600.00	36,000.00 97,800.00							1,000.00			
(a)												368

STATISTICS OF TRANSPORTATION.

TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS—Continued.

No.	STATES AND CITIES.	Name of road.	Total cost of road and equip- ment.	Miles of line owned.	COST OF CONSTRUCTION AND REAL ESTATE.		
					Total cost of construction and real estate.		Roadbed and track.
					For all line owned.	Per mile owned.	
NEW YORK.							
406	Brooklyn	Jamaica and Brooklyn Road Co	\$537,818.60		(a)		
425	Ithaca	Ithaca Street R. R.	45,000.00	1.00	\$30,000.00	\$30,000.00	
468	Rochester	Rochester Electric R'y Co	186,401.17	4.70	148,092.64	31,509.07	\$87,381.73
481	Syracuse	Third Ward R'y Co	162,435.45	3.00	66,291.37	22,097.12	34,988.71
488	Utica	Utica Belt Line Street R. R. Co	743,120.53	15.72	605,113.01	38,493.19	408,182.79
OHIO.							
492	Akron	Akron Street R. R. Co	282,600.00	10.00	202,600.00	20,260.00	136,900.00
495	Canton	Canton Street R'y Co. and Lakeside Street R. R. Co	202,863.75	8.25	151,475.00	18,360.61	107,500.00
496	Cincinnati	Cincinnati Incline Plane R'y Co	833,338.44		(a)		
497	Cincinnati	Cincinnati Street R'y Co	80,000.00		(a)		
500	Cleveland	Broadway and Newburg Street R. R. Co	304,009.73	6.95	177,301.51	25,511.01	
503	Cleveland	East Cleveland R. R. Co	2,275,166.97	19.50	2,078,466.97	106,588.05	1,358,503.80
504	Cleveland	Lake View and East Cleveland Street R'y Co	624,732.58	2.68	24,732.58	9,228.57	
508	Dayton	Dayton and Soldiers' Home R. R. Co	165,000.00	2.00	145,000.00	72,500.00	
519	Lima	Lima Street Railway Motor and Power Co	88,388.06		(a)		
521	Mansfield	Mansfield Electric Street R'y Co	57,000.00	4.50	48,000.00	10,666.67	20,000.00
523	Newark	Newark and Granville Electric Street R'y Co	29,350.00	3.00	25,300.00	8,433.33	10,000.00
525	Piqua	Piqua Street R'y Co	51,550.00	4.00	24,000.00	6,000.00	16,000.00
526	Salem	Salem Electric R'y Co	65,000.00		(a)		
529	Steubenville	Steubenville Street R'y Co	50,000.00		(a)		
OREGON.							
536	Portland	Metropolitan R'y Co	330,940.58	4.25	248,793.33	58,539.61	142,935.79
543	Salem	Capital City R'y Co	33,100.00	2.00	27,500.00	13,750.00	11,400.00
PENNSYLVANIA.							
550	Easton	Pennsylvania Motor Co	251,250.00		(e)		
551	Erie	Erie Electric Motor Co	607,984.19	13.12	411,221.01	31,343.06	
552	Harrisburg	East Harrisburg Passenger R'y Co	125,801.27	5.00	83,825.81	16,765.16	50,264.21
566	Philadelphia	Lehigh Avenue R'y Co	227,349.62	3.00	209,349.62	69,783.21	126,228.93
582	Pittsburg	Federal Street and Pleasant Valley Passenger R'y Co	1,156,354.28	11.71	748,190.45	63,893.29	541,690.35
591	Pittsburg	Pittsburg, Knoxville and Saint Clair Street R'y Co	195,000.00		(a)		
595	Pittsburg	Second Avenue Passenger R'y Co	268,052.81	4.50	207,152.81	46,033.96	162,659.80
597	Pittsburg	Suburban Rapid Transit Street R'y Co	62,061.88	2.25	52,061.88	23,138.61	18,562.46
599	Reading	East Reading R. R. Co	63,617.96	3.00	36,337.24	12,112.41	22,583.50
602	Scranton	People's Street R'y Co	621,721.86	15.00	511,109.57	34,073.97	418,264.66
604	Sunbury	Sunbury and Northumberland Street R'y Co	140,475.34	3.30	136,945.34	41,498.59	
607	Wilkesbarre	Wilkesbarre and Suburban Street R'y Co	99,967.28	6.00	87,467.28	14,577.88	
608	Wilkesbarre	Wilkesbarre and West Side R'y Co	85,000.00	3.33	73,000.00	21,921.92	23,620.00
RHODE ISLAND.							
611	Newport	Newport Street R'y Co	147,340.34		(a)		
SOUTH DAKOTA.							
625	Sioux Falls	South Dakota Rapid Transit R'y Co	111,176.79	7.37	111,176.79	15,085.05	53,284.96
TENNESSEE.							
629	Chattanooga	Chattanooga Electric Street R. R. Co	375,270.00	11.11	300,770.00	27,072.01	200,770.00
641	Nashville	United Electric R'y	2,000,000.00		(a)		
TEXAS.							
647	Fort Worth	North Side R. R. Co	106,000.00		(a)		
652	Laredo	Laredo Improvement Co. (St. R'y Div.)	73,000.00	4.25	55,000.00	12,941.18	45,000.00
657	Sherman	College Park Electric Belt Line	60,200.00	4.50	53,200.00	11,822.22	22,500.00
UTAH.							
663	Salt Lake city	Salt Lake City R. R. Co	242,082.06	20.00	204,836.22	10,241.81	87,758.58
VIRGINIA.							
667	Danville	Danville Street Car Co	52,253.07	2.00	36,618.62	18,309.31	18,177.14
WASHINGTON.							
680	Seattle	Seattle Electric Railway and Power Co	323,460.21	11.60	217,111.70	18,716.53	134,010.90
681	Spokane	Ross Park Street R'y Co	105,500.00		(a)		
WEST VIRGINIA.							
686	Huntington	Huntington Electric Light and Street R'y Co	29,750.00		(a)		
WISCONSIN.							
691	Appleton	Appleton Electric Street R'y Co	58,325.00	3.50	41,800.00	11,942.86	21,000.00
692	Eau Claire	Eau Claire Street Railway, Light and Power Co	65,000.00		(a)		
700	Milwaukee	Milwaukee Electric R'y Co	350,000.00	6.00	290,000.00	48,333.33	
701	Milwaukee	West Side R. R. Co	1,012,422.73		(a)		
705	Superior	Douglas County Street R'y Co	90,000.00	5.43	68,500.00	12,615.10	40,500.00

a Not given separately.

b No equipment owned by this company.

c None owned.

d Equipment only.

e Not given.

f A storage-battery road; batteries are leased and not included in cost.

STREET RAILWAYS.

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TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS—Continued.

COST OF CONSTRUCTION AND REAL ESTATE—continued.					Miles of line oper- ated.	COST OF EQUIPMENT.					No.	
Right of way.	Electrical street construc- tion (posts, wires, etc.).	Power plant, land, and buildings.	Acquisition of line not built by com- pany.	Miscellane- ous items of construction.		Total cost of equipment.		Passenger cars.	Other roll- ing stock.	Motors, trolleys, and fit- tings.		Miscellane- ous items of equip- ment.
						For all line operated.	Per mile operated.					
				\$30,000.00	1.00	(a)						406
\$16,212.14	\$17,569.60	\$26,949.17			4.70	\$15,000.00	\$15,000.00				\$15,000.00	425
7,426.79		16,714.55		7,161.32	3.00	38,308.53	8,150.75				38,308.53	468
	177,370.91	19,559.31			15.72	96,144.08	32,048.03				96,144.08	481
						138,007.52	8,779.10				138,007.52	488
700.00	19,800.00	45,200.00			10.00	80,000.00	8,000.00	\$26,000.00		\$54,000.00		492
	11,200.00	32,775.00			8.25	51,388.75	6,228.94	21,120.00		30,268.75		495
						(a)						496
				177,301.51	6.95	126,708.22	18,231.40				126,708.22	497
	422,629.44	297,333.73			19.50	196,700.00	10,087.18	181,600.00			15,100.00	500
				24,732.58		(c)						503
				145,000.00	2.00	20,000.00	10,000.00				20,000.00	504
	15,000.00	13,000.00			4.50	9,000.00	2,000.00	4,000.00		5,000.00		508
	10,000.00	5,300.00			3.00	4,050.00	1,350.00	1,150.00		2,900.00		519
	4,000.00	4,000.00			4.00	27,550.00	6,887.50	6,300.00		21,250.00		521
						(a)						523
						(a)						525
						(a)						526
						(a)						529
	65,000.00	40,414.07		443.47	4.25	82,147.25	19,328.76				82,147.25	536
	4,600.00	11,500.00			2.00	5,600.00	2,800.00	2,600.00		3,000.00		543
					2.38	51,250.00	21,533.61				51,250.00	550
				411,221.01	13.12	196,763.18	14,997.19				196,763.18	551
		33,561.60			5.00	41,975.46	8,395.09	11,576.00	\$3,849.12	26,550.34		552
		83,120.69			3.00	18,000.00	6,000.00				18,000.00	566
	68,210.00	138,290.10			11.71	408,163.83	34,856.01	324,163.83		84,000.00		582
						(a)						591
20,000.00	27,330.44	17,162.57			5.50	60,900.00	11,072.73				60,900.00	595
678.74	8,499.42	5,000.00			2.25	10,000.00	4,444.44	4,000.00		6,000.00		597
	5,075.00	8,000.00			3.00	27,280.72	9,093.57	8,050.00		19,230.72		599
					15.00	110,612.29	7,374.15				110,612.29	602
		92,844.91		136,945.34	3.30	3,530.00	1,069.70	3,375.00	155.00			604
				87,467.28	6.00	12,500.00	2,083.33	5,000.00		7,500.00		607
	25,665.00	23,715.00			3.33	12,000.00	3,603.60				12,000.00	608
						(a)						611
5,700.00	35,058.00	17,133.83				(i)						625
	40,000.00	60,000.00			11.11	74,500.00	6,705.67	18,000.00	1,500.00	55,000.00		629
						(a)						641
					4.25	(a)						647
300.00	21,500.00	10,000.00			4.50	18,000.00	4,235.29	6,000.00		12,000.00		652
		8,900.00				7,000.00	1,555.56				7,000.00	657
	8,422.81	108,654.83			20.00	37,245.84	1,862.29				37,245.84	663
	4,061.43	14,380.05			2.00	15,634.45	7,817.23	14,500.61	5.00	1,058.84		667
4,767.50		78,333.30			11.60	106,348.51	9,167.98				106,348.51	680
						(a)						681
						(a)						686
	3,800.00	17,000.00			3.50	16,525.00	4,721.43	3,825.00		12,700.00		691
				290,000.00	6.00	(a)					60,000.00	692
						60,000.00	10,000.00					700
						(a)						701
	18,000.00	10,000.00			5.43	21,500.00	3,959.48				21,500.00	705

g Includes payments to date. Road not yet fully paid for.
 h Construction and real estate only.

i No report of cost of equipment.
 j Excludes power plant, which is covered in lighting plant.

k About \$800,000 of this represents cost of horse line

STATISTICS OF TRANSPORTATION.

TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

CABLE RAILWAYS.

No.	STATES AND CITIES.	Name of road.	Total cost of road and equip- ment.	Miles of line owned.	COST OF CONSTRUCTION AND REAL ESTATE.		
					Total cost of construction and real estate.		Track, road- bed, and conduits.
					For all line owned.	Per mile owned.	
CALIFORNIA.							
33	Los Angeles	Second Street Cable R. R. Co.....	\$100,026.17	1.29	\$91,300.00	\$70,775.19	\$64,300.00
34	Los Angeles	Temple Street Cable R'y Co.....	257,999.11	3.00	235,936.37	78,645.46	190,000.00
38	Oakland	Oakland R. R. Co.....	433,097.71	2.72	404,602.20	148,750.81	266,150.04
58	San Francisco	California Street Cable R. R. Co.....	601,431.64	2.49	421,913.15	169,443.03	272,628.03
61	San Francisco	Ferris and Cliff House R'y Co.....	1,510,495.84	8.86	1,358,303.98	153,307.45	762,396.01
62	San Francisco	Geary Street Park and Ocean R. R. Co.....	α67,896.16	(b)			
65	San Francisco	Omnibus Cable Co.....	2,687,996.54	11.75	2,468,996.54	210,127.37	1,923,711.88
68	San Francisco	Sutter Street R'y Co.....	1,467,000.00	5.75	1,249,000.00	217,217.39	875,000.00
COLORADO.							
81	Denver	Denver City Cable R'y Co.....	3,304,952.01	13.00	3,065,589.33	235,814.56	1,296,713.17
83	Denver	Denver Tramway Co.....	1,602,255.58	8.50	1,445,381.91	170,044.93	1,130,911.06
DIST. OF COLUMBIA.							
112	Washington	Washington and Georgetown R. R. Co.....	730,872.93	3.70	634,766.20	171,558.43	391,970.51
IOWA.							
197	Dubuque	Eleventh Street Elevated R. R.....	7,000.00	(c)			
MICHIGAN.							
291	Grand Rapids	Valley City Street and Cable R'y Co.....	772,193.45	7.75	715,316.08	92,298.85	580,500.00
MINNESOTA.							
304	Saint Paul	Saint Paul City R'y Co.....	1,186,117.37	5.01	1,057,652.86	211,108.36	688,937.23
MISSOURI.							
315	Kansas city	Grand Avenue R'y Co.....	2,257,860.34	8.57	2,025,010.67	236,290.63	1,036,299.90
317	Kansas city	Kansas City Cable R'y Co.....	2,649,735.84	10.15	2,378,234.74	234,308.84	1,598,684.71
318	Kansas city	Metropolitan Street R'y Co.....	4,028,735.37	11.69	3,752,680.46	321,016.29	1,723,555.37
334	Saint Louis	Missouri R. R. Co.....	979,293.43	4.50	790,945.05	175,765.57	591,590.03
337	Saint Louis	People's R'y Co.....	806,500.00	5.00	677,700.00	135,540.00	600,000.00
338	Saint Louis	Saint Louis and Suburban R'y	1,219,615.63	3.20	1,131,615.63	353,629.88	948,131.12
MONTANA.							
346	Butte city.....	Butte City Street R'y Co.....	162,000.00	1.50	149,000.00	99,333.33	123,000.00
NEW YORK.							
460	New York	Third Avenue R. R. Co.....	1,907,516.68	5.75	1,634,249.11	284,217.24	1,285,587.36
OHIO.							
497	Cincinnati	Cincinnati Street R'y Co.....	627,953.15	4.05	493,460.08	121,842.00	316,299.20
498	Cincinnati	Mount Adams and Eden Park Inclined R'y.....	563,446.83	4.00	422,876.68	105,719.17	328,208.77
499	Cincinnati	Mount Auburn Cable R'y Co.....	640,578.75	4.51	586,328.75	130,006.37	497,530.05
OREGON.							
540	Portland	Portland Cable R'y Co.....	582,196.00	5.30	545,196.00	102,867.17	409,196.00
PENNSYLVANIA.							
544	Allegheny	Troy Hill Inclined Plane and Bridge Co.....	286,471.94	(c)			
577	Philadelphia	Union Passenger R'y Co.....	d4,877,444.78	(c)	4,401,838.56		
578	Philadelphia	West Philadelphia Passenger R'y Co.....	1,910,677.23	(c)			
580	Pittsburg.....	Citizens' Traction Co.....	1,937,693.57	6.00	1,763,103.13	293,850.52	
581	Pittsburg.....	Duquesne Inclined Plane Co.....	47,819.86	(c)			
583	Pittsburg.....	Fort Pitt Inclined Plane R'y Co.....	98,524.96	(c)			
584	Pittsburg.....	Monongahela Inclined Plane Co.....	250,000.00	(c)			
585	Pittsburg.....	Mount Oliver Incline R'y Co.....	89,065.53		86,391.53		64,291.53
592	Pittsburg.....	Pittsburg Traction Co.....	2,628,586.59	5.50	2,489,143.62	452,571.57	1,021,949.40
594	Pittsburg.....	Saint Clair Inclined Plane Co.....	75,000.00		72,000.00		
RHODE ISLAND.							
613	Providence	Providence Cable Tramway Co.....	253,930.11	3.00	220,612.47	73,537.49	150,797.56
WASHINGTON.							
677	Seattle.....	Front Street Cable R'y Co.....	341,500.00	1.59	317,500.00	199,685.53	105,000.00
678	Seattle.....	Lake Washington Cable R. R. Co.....	327,587.21	4.85	310,212.38	63,961.32	280,212.38
679	Seattle.....	Madison Street Cable R'y Co.....	565,000.00	3.50	538,000.00	153,714.29	272,000.00
683	Spokane.....	Spokane Cable R'y Co.....	238,000.00	(c)			

α Equipment for cable power only.

b Construction will be found under mixed powers.

c Not given separately.

STREET RAILWAYS.

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TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

CABLE RAILWAYS.

COST OF CONSTRUCTION AND REAL ESTATE—continued.				Miles of line operated.	COST OF EQUIPMENT.							No.
Right of way.	Power plant, land, and buildings.	Acquisition of line not built by company.	Miscellaneous items of construction.		Total cost of equip- ment.		Passenger cars.	Other roll- ing stock	Cables.	Grips.	Miscella- neous items of equip- ment.	
					For all line operated.	Per mile operated.						
\$4,000.00	\$23,000.00			1.29	\$8,726.17	\$6,764.47	\$3,000.00		\$3,500.00		\$2,226.17	33
	45,936.37			3.00	22,062.74	7,354.25	7,000.00	\$5,000.00	8,062.74	\$2,000.00		34
	123,452.16		\$15,000.00	2.72	28,495.51	10,476.29	20,277.41	8,218.10				38
	149,285.12			2.49	179,518.49	72,095.78	71,753.91		103,564.58	4,200.00		58
200,000.00	264,652.28		131,255.69	8.86	152,191.86	17,177.41	114,411.26		20,442.15	17,338.45		61
				2.40	87,896.16	28,290.07	55,425.97		10,570.19	1,900.00		62
	545,284.66			11.75	219,000.00	18,638.30					219,000.00	65
	374,000.00			5.75	218,000.00	37,913.04	106,000.00	83,000.00	20,000.00	9,000.00		68
1,346,404.82	422,471.34			13.00	239,362.68	18,412.51	173,508.66		47,129.15	7,070.88	11,653.99	81
	314,470.85			8.50	156,873.67	18,455.73	136,379.84		20,493.83			83
	242,795.69			3.70	96,106.73	25,974.79	58,610.17	21,089.81	10,156.75	6,250.00		112
					(c)							197
	134,816.08			7.75	56,877.37	7,339.02	33,877.55	1,165.00	14,709.82	2,125.00	5,000.00	291
	368,715.63			5.01	128,464.51	25,641.62		4,000.00	18,191.00		106,273.51	304
314,194.67	429,299.36		245,216.74	8.57	232,849.67	27,170.32	180,494.26	10,184.77	30,759.65	11,410.99		315
25,365.86	543,621.51		210,562.66	10.15	271,501.10	26,748.88	211,800.00	2,000.00	40,201.10	17,500.00		317
892,990.43	849,027.23		287,107.43	11.69	276,054.91	23,614.62	214,621.38	1,067.43	47,565.11	12,031.71	769.28	318
2,000.00	197,355.02			4.50	188,348.38	41,855.20	146,015.65	2,000.00	35,000.00	5,332.73		334
	77,700.00			5.00	128,800.00	25,760.00	51,800.00	41,000.00	32,000.00	4,000.00		337
	183,484.51			3.20	88,000.00	27,500.00	48,000.00	26,000.00	10,500.00	3,500.00		338
1,000.00	25,000.00			1.50	13,000.00	8,666.67	9,000.00		3,000.00	1,000.00		346
	348,661.75			5.75	273,267.57	47,524.79	98,053.18				175,214.39	460
16,172.47	146,081.85		14,906.56	4.05	134,493.07	33,208.17	68,269.41		11,250.17		54,973.49	497
	94,667.91			4.00	140,570.15	35,142.54			12,000.00		128,570.15	498
	88,798.70			4.51	54,250.00	12,028.82	22,600.00	15,400.00	13,500.00	2,750.00		499
	136,000.00			5.30	37,000.00	6,981.13	24,000.00		10,000.00	3,000.00		540
					(c)							544
			4,401,838.56	(c)	475,606.22						475,606.22	577
			1,763,103.13	6.00	174,590.44	29,098.41	102,000.00	1,550.00	41,476.60	16,500.00	13,063.84	578
					(c)							580
					(c)							581
					(c)							583
					(c)							584
	22,100.00				2,674.00		1,500.00		1,174.00			585
	404,120.86	\$1,029,000.00	34,073.36	5.50	139,442.97	25,353.27	68,920.00	800.00	20,791.10	16,500.00	32,431.87	592
			72,000.00		3,000.00					3,000.00		594
	69,814.91			3.00	33,317.64	11,105.88	23,885.98		4,000.00	2,523.15	2,908.51	613
50,000.00	147,500.00		15,000.00	1.59	24,000.00	15,094.34	18,000.00		5,000.00	1,000.00		677
	30,000.00			4.85	17,374.83	3,582.44	6,400.00		10,974.83			678
50,000.00	146,000.00		70,000.00	1.75	27,000.00	15,428.57	16,000.00		10,000.00	1,000.00		679
					(c)							683

d Includes Seventeenth and Nineteenth Streets R'y Co. and Continental Passenger R'y Co.

e Operated by Philadelphia Traction Co. Includes Seventeenth and Nineteenth Streets Passenger R'y Co. and Continental Passenger R'y Co.'s equipment.

TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

STEAM PASSENGER RAILWAYS.

No.	STATES AND CITIES.	Name of road.	Total cost of road and equip- ment.	Miles of line owned.	COST OF CONSTRUCTION AND REAL ESTATE.		
					Total cost of construction and real estate.		Roadbed, super- structure, and rails.
					For all line owned.	Per mile owned.	
ALABAMA.							
2	Birmingham	Birmingham, Powderly and Bessemer Street R. R. Co.	\$240,671.39	12.50	\$208,504.20	\$16,680.34	\$92,811.75
3	Birmingham	Birmingham Railway and Electric Co.	612,936.36	29.75	448,034.92	15,060.00	433,078.46
4	Birmingham	East Birmingham Land and R. R. Co.	123,908.58	7.00	99,008.58	14,144.08	85,158.58
5	Birmingham	Highland Avenue and Belt R. R. Co.	891,650.29	5.86	851,150.29	145,247.49	142,314.69
6	Birmingham	North Birmingham Street R. R. Co.	80,659.31	3.80	51,269.46	13,491.96	45,430.26
12	Sheffield	Sheffield Street R'y Co.	50,000.00	4.40	39,000.00	8,863.64	32,000.00
14	Tuscaloosa	Tuscaloosa Belt R'y Co.	22,150.00	2.25	16,000.00	7,111.11	
ARKANSAS.							
19	Little Rock	City Electric Street R'y Co.	53,500.00	3.25	39,300.00	12,092.31	32,000.00
CALIFORNIA.							
26	Los Angeles	Cahuenga Valley R. R. Co.	50,591.61	6.06	48,067.73	7,931.97	47,647.85
32	Los Angeles	San Gabriel Valley Rapid Transit R'y.	403,550.44	19.70	365,507.69	18,553.69	301,335.43
46	Pomona	Pomona Street R. R. Co.	19,543.70	2.88	15,984.10	5,550.03	15,410.32
54	San Bernardino.	San Bernardino and Redlands R. R. Co.	100,000.00	10.50	75,000.00	7,142.86	60,000.00
55	San Bernardino.	San Bernardino, Arrowhead and Waterman R. R. Co.	65,059.00	4.50	53,221.00	11,826.89	42,000.00
56	San Bernardino.	Southern California Motor Road Co.	328,500.00	12.00	300,000.00	25,000.00	
61	San Francisco	Ferris and Cliff House R'y Co.	417,523.86	6.03	319,645.51	53,009.21	129,297.07
62	San Francisco	Geary Street Park and Ocean R. R. Co.	225,625.00		(b)		
COLORADO.							
80	Denver	Denver and Berkeley Park Rapid Transit Co.	81,535.02	5.00	52,363.41	10,472.68	38,363.41
FLORIDA.							
119	Tampa.	Tampa Street R'y Co.	39,130.23	3.40	21,451.48	6,309.26	21,301.48
GEORGIA.							
128	Columbus	Columbus R. R. Co.	224,037.12		(b)		
130	Lithia Springs	Salt Springs and Bowden Lithia R. R.	12,300.00	1.38	9,000.00	6,521.74	9,000.00
131	Milledgeville	Milledgeville and Asylum Dummy R. R. Co.	39,978.42	5.50	26,278.42	4,777.89	
134	Savannah.	City and Suburban R'y Co.	143,000.00	12.00	95,000.00	7,916.67	60,000.00
ILLINOIS.							
137	Alton.	Alton Improvement Association	45,000.00	3.13	35,500.00	11,341.85	
INDIANA.							
168	Evansville.	Evansville, Suburban and Newburg R'y Co.	117,000.00	10.90	87,000.00	7,981.65	85,000.00
179	Muncie	Muncie Street R'y Co.	42,220.00	5.00	23,570.00	4,714.00	19,995.00
IOWA.							
188	Cedar Rapids	Cedar Rapids and Marion R'y.	96,169.94	5.50	76,620.43	13,930.99	71,068.00
190	Council Bluffs	Lake Manawa R'y Co.	71,000.00	4.00	44,000.00	11,000.00	28,000.00
194	Des Moines.	Des Moines Belt Line R'y Co.	90,000.00	4.50	78,000.00	17,333.33	46,000.00
204	Sioux city	Sioux City and Highland Park R'y Co.	151,852.00	4.75	135,802.00	28,589.89	50,642.00
KANSAS.							
215	Leavenworth	Leavenworth Rapid Transit R'y Co.	211,000.00	5.50	165,000.00	30,000.00	160,000.00
220	Topeka	Topeka Belt R'y Co.	143,338.35	3.80	117,615.23	30,951.38	72,915.26
LOUISIANA.							
236	New Orleans.	New Orleans, Spanish Fort and Lake R. R. Co.	500,000.00		500,000.00		
MASSACHUSETTS.							
276	Onset.	Onset Street R'y Co.	15,715.44	1.00	7,384.47	7,384.47	6,952.57
MINNESOTA.							
301	Minneapolis.	Minneapolis, Lyndale and Minnetonka R'y Co.	1,084,299.34	18.00	861,648.90	47,869.38	649,345.73
MISSOURI.							
314	Kansas city	East Fifth Street R'y Co.	175,979.11	2.25	135,479.11	60,212.94	110,571.12
315	Kansas city	Grand Avenue R'y Co.	17,199.54	1.81	14,067.84	7,772.29	2,405.18
316	Kansas city	Kansas City and Independence Rapid Transit R'y.	1,625,900.78	8.16	1,605,366.67	196,736.11	102,800.52
338	Saint Louis.	Saint Louis and Suburban R'y	873,565.63	15.71	810,765.63	51,608.25	
MONTANA.							
346	Butte city	Butte City Street R'y Co.	155,000.00	7.00	120,000.00	17,142.86	105,000.00
347	Helena	Helena, Hot Springs and Smelter R. R. Co.	190,000.00		(c)		
NEW YORK.							
399	Brooklyn	Brooklyn Elevated R. R. Co.	9,745,884.85		9,651,545.06		
403	Brooklyn	Fulton Elevated R. R. Co.	1,759,068.63		1,759,068.63		
407	Brooklyn	Kings County Elevated R'y Co.	10,004,645.07	6.14	9,536,118.74	1,553,113.80	9,621,000.00
411	Brooklyn	Sea View R. R. Co.	215,330.45	1.00	190,752.54	190,752.54	9,506,118.74

a Equipment for steam power only.

b Construction will be found under mixed powers.

c Acquisition only reported.

d Not given.

e Not given separately.

f Includes unclassified items of construction and equipment.

STREET RAILWAYS.

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TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

STEAM PASSENGER RAILWAYS.

COST OF CONSTRUCTION AND REAL ESTATE—continued.				Miles of line operated.	COST OF EQUIPMENT.						No.
Right of way.	Land, build-ings, and fixtures.	Acquisition of line not built by company.	Miscellaneous items of construction.		Total cost of equipment.		Passenger cars.	Locomotives and dummies.	Other rolling stock.	Miscellane-ous items of equipment.	
					For all line operated.	Per mile operated.					
\$11,461.60	\$104,230.85			12.50	\$32,167.19	\$2,573.38				\$32,167.19	2
	14,956.46			29.75	164,901.44	5,542.91				164,901.44	3
10,850.00	3,000.00			7.00	24,300.00	3,471.43	\$12,450.00	\$11,700.00	\$150.00		4
	708,835.60			5.86	40,500.00	6,911.26	16,500.00	24,000.00			5
2,653.90	3,185.30			4.00	29,389.85	7,347.46	12,154.20	15,037.25	116.12	2,082.28	6
	7,000.00			4.40	11,000.00	2,500.00	6,000.00	5,000.00			12
			\$16,000.00	2.25	6,150.00	2,733.33	1,600.00	4,550.00			14
300.00	7,000.00			3.25	14,200.00	4,369.23	6,200.00	8,000.00			19
	419.88			6.06	2,523.88	416.48	315.00	2,019.50	189.38		26
36,289.69	27,882.57			19.70	38,042.75	1,931.10	21,519.48	13,593.27	2,930.00		32
	573.78			2.88	3,559.60	1,235.97				3,559.60	46
5,000.00	10,000.00			10.50	25,000.00	2,380.95	8,000.00	15,000.00	2,000.00		54
	11,221.00			4.50	11,838.00	2,630.67	6,308.00	4,960.00	570.00		55
			300,000.00	12.00	28,500.00	2,375.00	12,500.00	16,000.00			56
61,389.50	94,747.10		34,211.84	6.03	97,878.35	16,231.90	46,339.01	51,539.34			61
				1.40	25,625.00	18,303.57	11,175.00	13,450.00	1,000.00		62
2,000.00	12,000.00			5.00	29,171.61	5,834.32				29,171.61	80
150.00				3.40	17,678.75	5,199.63	7,263.85	9,959.25	455.65		119
				11.00	24,037.12	2,185.19	9,037.12	15,000.00			128
				1.38	3,300.00	2,391.30	1,700.00	1,500.00	100.00		130
			26,278.42	5.50	13,700.00	2,490.91	2,200.00	10,500.00	1,000.00		131
2,000.00	33,000.00			12.00	48,000.00	4,000.00	20,000.00	15,000.00	13,000.00		134
			35,500.00	3.13	9,500.00	3,035.14	2,500.00	7,000.00			137
	2,000.00			10.90	30,000.00	2,752.29				30,000.00	168
	3,575.00			5.00	18,650.00	3,730.00	9,000.00	9,650.00			179
	5,037.73		514.70	5.50	19,549.51	3,554.46	16,922.96			2,626.55	188
6,000.00	10,000.00			4.00	27,000.00	6,750.00	11,000.00	16,000.00			190
5,000.00	27,000.00			4.50	12,000.00	2,666.67	7,000.00	4,000.00	1,000.00		194
57,075.00	28,085.00			4.75	16,050.00	3,378.95				16,050.00	204
	5,000.00			5.50	46,000.00	8,363.64	27,000.00	19,000.00			215
43,036.20	1,663.77			3.80	25,723.12	6,769.24	19,263.85	6,388.14		71.13	220
		\$500,000.00			(d)						236
	431.90			1.00	8,330.97	8,330.97				8,330.97	276
34,179.21	178,123.96			18.00	222,650.44	12,369.47				222,650.44	301
10,593.89	4,314.10			2.25	40,500.00	18,000.00	18,000.00	22,500.00			314
10,000.00	1,662.66			1.81	3,131.70	1,730.22				3,131.70	315
8,414.86	44,151.29		1,450,000.00	8.16	20,534.11	2,516.44				20,534.11	316
			810,765.63	15.71	62,800.00	3,997.45	39,300.00	22,000.00	1,500.00		338
3,000.00	12,000.00			7.00	35,000.00	5,000.00	9,000.00	26,000.00			346
					(e)						347
		9,651,545.06	57,207.25		(e)						399
18,985.67	61,875.71			16.14	468,526.33	76,307.22	292,537.00	173,015.48	2,973.85		403
	30,000.00			1.00	24,577.91	24,577.91	12,500.00	12,077.91			407
			190,752.54								411

g Includes equipment built under contract.
 h Included in cost of construction.

i Road operates 9.09 miles, but the equipment in this table is for 6.14 miles only.

STATISTICS OF TRANSPORTATION.

TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

STEAM PASSENGER RAILWAYS—Continued.

No.	STATES AND CITIES.	Name of road.	Total cost of road and equipment.	Miles of line owned.	COST OF CONSTRUCTION AND REAL ESTATE.		
					Total cost of construction and real estate.		Roadbed, super-structure, and rails.
					For all line owned.	Per mile owned.	
	NEW YORK—cont'd.						
447	New York	Jerome Park R'y Co.	<i>a</i> \$130,369.79	1.08	\$130,369.79	\$120,712.77	
449	New York	Manhattan R'y Co.	<i>c</i> 18,129,484.47	14.32	15,915,881.88	1,111,444.27	
450	New York	Metropolitan Elevated R'y Co.	21,318,000.00		(<i>d</i>)		
459	New York	Suburban Rapid Transit Co.	1,652,201.08	3.22	1,544,405.95	479,629.18	\$1,057,219.62
	OREGON.						
538	Portland	Mount Tabor Street R. R. Co.	33,265.31	2.65	22,180.31	8,369.93	21,975.84
539	Portland	Portland and Vancouver R'y Co.	117,272.88	6.60	88,675.95	13,435.75	84,074.35
	PENNSYLVANIA.						
600	Reading	Mount Penn Gravity R. R. Co.	112,688.50	7.72	83,035.65	10,755.91	71,516.28
	SOUTH DAKOTA.						
626	Watertown	Watertown and Lake Kampeska R'y Co.	44,582.36	5.65	36,282.36	6,421.66	
	TENNESSEE.						
635	Knoxville	Fountain Head R. R. Co.	80,000.00		(<i>d</i>)		
639	Nashville	Nashville and West Nashville R. R. Co.	173,003.21	6.00	134,147.91	22,357.99	96,005.42
640	Nashville	Overland R'y Co.	199,141.78	9.33	152,451.07	16,339.88	97,159.52
	VIRGINIA.						
675	Roanoke	Roanoke Street R'y Co.	300,890.90	11.00	283,190.90	25,744.63	90,406.00
	WASHINGTON.						
682	Spokane	Spokane and Montrose Motor R. R. Co.	50,000.00	3.50	35,200.00	10,057.14	
	WEST VIRGINIA.						
689	Wheeling	Wheeling and Elm Grove R. R.	159,285.21	8.00	129,285.21	16,160.65	108,451.31
	WISCONSIN.						
698	Milwaukee	Milwaukee and Whitefish Bay R'y Co.	63,046.71	5.33	43,601.75	8,180.44	41,989.88

a Construction and real estate only.*b* Equipment owned by New York Central and Hudson River R. R.

TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

STEAM PASSENGER RAILWAYS—Continued.

COST OF CONSTRUCTION AND REAL ESTATE—continued.				Miles of line operated.	COST OF EQUIPMENT.					No.	
Right of way.	Land, build- ings, and fixtures.	Acquisition of line not built by company.	Miscellaneous items of construction.		Total cost of equipment.		Passenger cars.	Locomotives and dummies.	Other rolling stock.		Miscellane- ous items of equipment.
					For all line operated.	Per mile operated.					
					(b)						447
	\$377,791.07		\$130,369.79 15,538,090.81	14.32	\$2,213,602.59	\$154,581.19	\$1,559,686.43	\$653,916.16			449
	487,186.33			3.22	(d) 107,795.13	33,476.75	61,008.78	46,786.35			450
											459
	204.47			2.65	11,085.00	4,183.02	6,000.00	4,625.00	\$460.00		538
\$1,512.17	3,089.43			6.60	28,596.93	4,332.87	10,574.22	18,022.71			539
4,261.27	7,258.10			7.72	29,652.85	3,841.04	13,933.15	15,405.44	314.26		600
			36,282.36	5.65	8,300.00	1,469.03	3,050.00	5,250.00			626
	38,142.49			6.00	(d) 38,855.30	6,475.88				\$38,855.30	635
	55,291.55			9.33	46,690.71	5,004.36				46,690.71	639
											640
293.81	192,491.09			11.00	17,700.00	1,609.09	8,000.00	7,000.00	250.00	2,450.00	675
			35,200.00	3.50	14,800.00	4,228.57	4,500.00	8,300.00	2,000.00		682
	20,833.90			8.00	30,000.00	3,750.00	13,000.00	17,000.00			689
	1,611.87			5.33	19,444.96	3,648.21	10,559.28	8,885.68			698

c Items in this table represent New York Elevated portion of the road.

d Not given separately.

STATISTICS OF TRANSPORTATION.

TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

RAILWAYS USING MORE THAN ONE KIND OF MOTIVE POWER, THE STATISTICS FOR THE SEVERAL KINDS NOT BEING SEPARABLE.

No.	STATES AND CITIES.	Name of road.	Total cost of road and equip- ment.	Miles of line owned.	COST OF CONSTRUCTION AND REAL ESTATE.		
					Total cost of construction and real estate.		Roadbed, track, and line construc- tion.
					For all line owned.	Per mile owned.	
ALABAMA.							
9	Mobile.....	Mobile Street R'y Co.....	\$1,048,735.64	20.25	\$976,392.64	\$48,216.92	\$910,692.64
10	Montgomery.....	Montgomery Terminal and Street R'y Co.....	186,000.00	8.50	145,000.00	17,058.82	75,000.00
11	Selma.....	Selma Street R. R. Co.....	50,000.00	7.00	40,000.00	5,714.29	35,000.00
ARKANSAS.							
21	Searcy.....	Searcy and West Point R. R. Co.....	75,000.00	8.19	64,700.00	7,899.88	-----
CALIFORNIA.							
31	Los Angeles.....	Pacific R'y Co.....	4,343,595.53	21.65	3,828,731.87	176,846.74	3,576,398.18
38	Oakland.....	Oakland R. R. Co.....	122,875.40	6.32	78,676.53	12,448.82	71,176.53
62	San Francisco.....	Geary Street Park and Ocean R. R. Co.....	326,808.03	3.80	326,808.03	86,002.11	235,090.73
63	San Francisco.....	Market Street Cable R'y Co.....	8,078,699.65	c15.23	7,604,369.12	499,301.98	6,831,004.38
67	San Francisco.....	Presidio and Ferris R. R. Co.....	343,183.41	4.38	297,083.41	67,827.26	168,750.00
CONNECTICUT.							
90	Hartford.....	Hartford and Wethersfield Horse R'y Co.....	447,553.75	15.00	356,696.94	23,779.80	206,978.07
GEORGIA.							
124	Atlanta.....	Metropolitan Street R. R. Co.....	288,117.86	10.00	228,817.86	22,881.79	-----
125	Augusta.....	Augusta and Summerville R. R. Co.....	332,811.90	(d)	-----	-----	-----
128	Columbus.....	Columbus R. R. Co.....	c106,242.16	16.00	106,242.16	6,640.14	102,000.00
ILLINOIS.							
142	Chicago.....	Chicago City R'y Co.....	11,078,610.96	76.48	9,221,447.78	120,573.32	7,256,218.90
145	Chicago.....	North Chicago Street R. R. Co.....	5,992,769.69	14.56	5,797,507.43	398,180.46	-----
147	Chicago.....	West Chicago Street R. R. Co.....	9,809,283.13	3.85	9,635,074.21	2,502,616.68	9,372,196.48
161	Rock Island.....	Rock Island and Milan Street R'y Co.....	47,176.47	5.50	38,176.47	6,941.18	33,880.47
IOWA.							
195	Des Moines.....	Des Moines Street R. R. Co.....	410,275.02	15.74	255,372.01	16,224.40	-----
KANSAS.							
242	Kansas city.....	Interstate Consolidated Rapid Transit R'y Co.....	1,815,875.52	7.89	1,626,865.14	206,193.30	-----
KENTUCKY.							
228	Louisville.....	Louisville R'y Co.....	3,713,078.88	g84.42	3,133,808.00	37,121.63	2,324,445.13
LOUISIANA.							
235	New Orleans.....	New Orleans City and Lake R. R. Co.....	1,513,694.23	(d)	-----	-----	-----
MASSACHUSETTS.							
253	Boston.....	Lynn and Boston R. R. Co.....	1,073,684.54	48.84	744,742.31	15,248.61	568,268.16
259	Boston.....	West End Street R'y Co.....	15,690,706.68	134.61	11,105,720.62	82,502.94	5,309,173.09
279	Springfield.....	Springfield Street R'y Co.....	529,085.08	20.75	417,523.60	20,121.62	277,558.06
MICHIGAN.							
290	Grand Rapids.....	Street R'y Co. of Grand Rapids.....	642,534.13	13.50	499,984.05	37,035.86	410,614.79
296	Saginaw.....	Saginaw Union Street R'y.....	366,000.00	15.50	285,000.00	18,387.10	240,000.00
MINNESOTA.							
304	Saint Paul.....	Saint Paul City R'y Co.....	1,467,468.17	20.26	1,182,124.56	58,347.71	768,559.85
MISSOURI.							
315	Kansas city.....	Grand Avenue R'y Co.....	67,210.24	1.75	53,085.70	30,334.69	43,651.86
329	Saint Louis.....	Citizens' R'y Co.....	1,500,000.00	8.50	1,320,000.00	155,294.12	650,000.00
333	Saint Louis.....	Lindell R'y Co.....	840,087.41	5.50	701,001.48	127,454.81	497,348.87
NEBRASKA.							
355	Lincoln.....	Capital Heights Street R'y Co.....	26,500.00	3.25	20,800.00	6,400.00	18,400.00
361	Omaha.....	Omaha Street R'y Co.....	6,500,000.00	(d)	-----	-----	-----
NEW JERSEY.							
373	Jersey city.....	North Hudson County R'y Co.....	1,431,773.08	24.90	1,157,475.08	46,484.94	-----
NEW YORK.							
384	Albany.....	Albany R'y.....	431,706.19	10.12	329,576.38	32,566.84	182,729.87
386	Albany.....	Watervliet Turnpike and R. R. Co.....	641,393.60	8.42	569,238.84	67,605.56	376,176.04
391	Binghamton.....	Binghamton Street R. P. Co.....	259,402.93	9.00	187,248.30	20,805.37	172,821.21
415	Buffalo.....	Buffalo Street R. R. Co.....	1,024,053.54	8.60	746,545.88	86,807.66	370,935.18
419	Elmira.....	Elmira and Horseheads R'y Co.....	159,840.83	17.40	138,219.76	7,943.66	122,842.04
486	Troy.....	Troy and Lansingburg R. R. Co.....	759,313.93	6.62	510,861.77	77,169.45	289,272.66
OHIO.							
501	Cleveland.....	Brooklyn Street R. R. Co. and South Side Street R. R. Co.....	1,358,147.26	13.84	1,011,161.24	73,060.78	542,084.64
PENNSYLVANIA.							
564	Philadelphia.....	Frankford and Southwark Passenger R. R. Co.....	1,052,763.55	18.00	841,163.55	46,731.31	501,068.97
572	Philadelphia.....	Philadelphia Traction Co.....	788,333.25	(i)	-----	-----	-----
579	Pittsburg.....	Central Traction Co.....	1,130,961.81	(d)	-----	-----	-----

a Construction and real estate only. For equipment see cable and steam powers.

b For this information see cable and steam powers.

c Including 2.83 miles leased.

d Not given separately.

e Construction and real estate only. For equipment see animal and steam powers.

f For this information see animal and steam powers.

STREET RAILWAYS.

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TABLE 3.—COST OF ROAD AND EQUIPMENT, FOR THE CENSUS YEAR—Continued.

RAILWAYS USING MORE THAN ONE KIND OF MOTIVE POWER, THE STATISTICS FOR THE SEVERAL KINDS NOT BEING SEPARABLE.

COST OF CONSTRUCTION AND REAL ESTATE—continued.				Miles of line operated.	COST OF EQUIPMENT.					No.
Right of way.	Land, build- ings, power plant, etc.	Acquisition of line not built by company.	Miscellaneous items of construction.		Total cost of equipment.		All cars.	Horses, har- ness, dummy engines, motors, cables, grips, etc.	Miscellaneous items of equip- ment.	
					For all line oper- ated.	Per mile oper- ated.				
\$700.00	\$65,000.00			20.25	\$72,343.00	\$3,572.49	\$31,212.00	\$41,131.00		9
	70,000.00			8.50	41,000.00	4,823.53	15,000.00	21,000.00	\$5,000.00	10
	5,000.00			7.00	10,000.00	1,428.57	9,000.00	1,000.00		11
			\$64,700.00	8.19	10,300.00	1,257.63			10,300.00	21
	252,333.69			21.65	514,863.66	23,781.23	91,645.11	50,057.28	373,161.27	31
	7,500.00			6.32	44,198.87	6,993.49	29,626.00	14,572.87		38
	91,717.30			(b)	(b)					62
	773,364.74			19.18	474,330.53	24,730.48	410,767.24	63,563.29		63
15,000.00	113,333.41			6.38	46,100.00	7,225.71	24,000.00	5,900.00	16,200.00	67
	149,718.87			15.00	90,856.81	6,057.12	52,206.71	38,650.10		90
			228,817.86	10.00	59,300.00	5,930.00			59,300.00	124
700.00	3,542.16			(f)	(d)					125
	1,965,228.88			76.48	1,857,163.18	24,282.99	1,374,397.05	137,090.45	345,675.68	142
	262,877.73		5,797,507.43	46.37	195,262.26	4,210.96	165,126.56		30,135.70	145
2,896.00	1,400.00			69.25	174,188.92	2,515.36			174,188.92	147
				5.50	9,000.00	1,636.36	7,000.00	2,000.00		161
			255,372.01	15.74	154,903.01	9,841.36			154,903.01	195
			1,626,865.14	7.89	189,010.38	23,955.69	93,194.08	65,881.02	29,935.28	212
			809,362.87	84.42	579,270.88	6,861.77	322,672.57	256,598.31		228
					(d)					235
	176,474.15			57.65	328,942.23	5,705.85	116,600.00	95,200.00	117,142.23	253
	5,796,547.53			149.90	4,584,986.06	30,586.97	2,503,025.64	928,218.00	1,153,742.42	259
	139,965.54			20.75	111,561.48	5,376.46	50,530.28	39,329.66	21,701.54	279
	89,369.26			13.50	142,550.08	10,559.27			142,550.08	290
	42,000.00		3,000.00	15.50	81,000.00	5,225.81	30,000.00	51,000.00		296
	413,564.71			20.26	285,343.61	14,084.09	175,690.08	108,552.90	1,100.63	304
7,500.00	1,933.84			1.75	14,124.54	8,071.17	5,221.00	8,903.54		315
	670,000.00			8.50	180,000.00	21,176.47	150,000.00	30,000.00		329
	203,652.61			5.50	139,085.93	25,288.35			139,085.93	333
	2,400.00			3.25	5,700.00	1,753.85	3,000.00		2,700.00	355
					(d)					361
	373,472.95		784,002.13	24.90	274,298.00	11,015.98	124,278.00	135,811.00	14,209.00	373
	116,454.63		30,391.88	10.12	102,129.81	10,091.88			102,129.81	384
	80,673.66		112,389.14	8.42	72,154.76	8,569.45	66,482.26		5,672.50	386
748.85	5,558.16		8,120.08	12.00	72,154.63	6,012.89	21,055.94	50,968.69	130.00	391
	364,452.71		11,157.99	10.60	277,507.66	26,179.97	142,964.73	134,542.93		415
	15,377.72			17.40	21,621.07	1,242.59	16,621.07	5,000.00		419
5,361.94	206,750.35		9,476.82	13.31	248,452.16	18,666.58	134,437.50	58,610.30	55,404.36	496
97,659.35	371,417.25			16.00	346,986.02	21,686.63	199,269.90	147,716.12		501
78,464.60	261,629.98			18.00	211,600.00	11,755.56	81,600.00	130,000.00		564
					788,333.25				788,333.25	572
					(d)					579

g Leased.

h Represents only the amount expended for equipment by Philadelphia Traction Co.

i Reported by lessor companies.

j This includes only the amount expended by Philadelphia Traction Co., and does not include equipment furnished by leased lines.

STATISTICS OF TRANSPORTATION

TABLE 4.—EMPLOYEES AND WAGES, FOR THE CENSUS YEAR.

RAILWAYS OPERATED BY ANIMAL POWER.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		ALL EMPLOYÉS.		OFFICERS AND OFFICE EMPLOYÉS.	
			Months.	Days.	No.	Total salaries and wages paid.	No.	Total salaries paid.
ALABAMA.								
3	Birmingham	Birmingham Railway and Electric Co.	6		66	\$24,485.87	10	\$6,266.53
7	Decatur	Decatur Street R'y Co.	2		10	770.00	3	250.00
9	Mobile	Mobile Street R'y Co.	12		88	24,295.51	8	3,470.00
13	Tuscaloosa	Tuscaloosa and Castle Hill Real Estate and Manufacturing Co.	12		16	5,800.00	1	1,500.00
ARKANSAS.								
15	Fort Smith	Fort Smith Street R'y Co.	12		19	8,093.75	1	75.00
16	Helena	Citizens' Street R'y Co.	12		8	3,480.00	2	960.00
17	Hot Springs	Hot Springs Street R. R. Co.	12		22	10,780.00	2	2,400.00
18	Little Rock	Capital Street R'y Co.	12		74	36,218.00	4	5,000.00
20	Pine Bluff	Citizens' Street R'y Co.	12		20	5,400.00		
22	Texarkana	Texarkana Street R'y Co.	12		14	5,880.00	3	600.00
CALIFORNIA.								
23	Anaheim	Anaheim Street Car Co.	12		1	500.00		
24	Fresno	Fresno R. R. Co.	12		3	2,062.00	1	600.00
25	Fresno	Fresno Street R. R. Co.	12		5		1	
27	Los Angeles	Elysian Park Street R'y Co.	6		3	480.00	1	
29	Los Angeles	Main Street and Agricultural Park R. R. Co.	12		70	52,834.25	4	7,851.00
30	Los Angeles	Mateo and Santa Fe Avenue R'y Co.	12		1			
31	Los Angeles	Pacific R'y Co.	12		68	42,112.00		
35	Marysville	Marysville and Yuba City Street R. R. Co.	10		5	2,590.00	1	900.00
36	Oakland	Alameda, Oakland and Piedmont R. R. Co.	12		8	6,660.00	2	2,100.00
37	Oakland	Oakland, Brookland and Fruitvale R. R. Co.	12		9	5,285.00	1	300.00
39	Ontario	Ontario and San Antonio Heights R. R. Co.	12		2	1,440.00		
40	Pasadena	Alhambra and Pasadena Street R'y Co.	12		2	900.00		
41	Pasadena	City R'y Co.	12		7	3,282.50	1	180.00
42	Pasadena	Highland R. R. Co.	4		1	480.00		
43	Pasadena	Pasadena Street R. R. Co.	12		9	2,825.35	2	673.00
44	Pasadena	West Pasadena R'y Co.	12		1	480.00		
45	Pomona	Orange Grove Street R. R. Co.	12		1	420.00		
48	Redlands	Redlands Street R'y Co.	12		1	829.00		
49	Riverside	Hall's Addition Street R'y Co.	12		2	735.00	1	195.00
50	Riverside	Riverside and Arlington R'y Co.	12		6	3,176.76	2	775.00
51	Riverside	Riverside R'y Co.	12		2	1,150.00		
52	Sacramento	Sacramento City R'y Co.	12		32	20,922.25	2	1,500.00
53	San Bernardino	City Street R. R. Co.	12		6	3,270.00	2	1,080.00
57	San Diego	San Diego Street Car Co.	12		48	32,203.32	5	1,955.20
59	San Francisco	Central R. R. Co.	12		89	63,138.96	5	5,310.65
60	San Francisco	City R. R. Co.	12		103	81,957.34	6	6,710.25
63	San Francisco	Market Street Cable R'y Co.	12		33	24,344.10		
64	San Francisco	North Beach and Mission R. R. Co.	12		190	149,203.00	8	10,500.00
66	San Francisco	Potrero and Bay View R. R. Co.	12		30	23,722.18	4	4,500.00
67	San Francisco	Presidio and Ferris R. R. Co.	12		14	11,235.00		
69	San Jose	First Street and Willow Street R. R.	12		14	9,500.00		
70	San Jose	North Side Horse R. R. Co.	12		5	2,650.00		
72	San Luis Obispo	San Luis Street R'y Co.	3		4	2,520.00	1	720.00
73	Santa Ana	Santa Ana, Orange and Tustin Street R'y Co.	12		4	2,046.76		
74	Santa Barbara	Santa Barbara and Citizens' Street R'y Co.	12		10	4,400.00	2	1,200.00
75	Santa Cruz	Pacific Avenue R. R. Co.	12		12	3,895.66	1	720.00
76	Santa Rosa	South Side Street R'y Co.	12		4	895.68	1	60.00
77	Stockton	Stockton Street R. R. Co.	12		16	10,200.00	5	1,320.00
78	Woodland	Woodland Street R. R. Co.	12		1	540.00		
COLORADO.								
82	Denver	Denver City R'y Co.	12		151	130,001.61	8	9,375.47
85	Pueblo	Pueblo City R'y Co.	12		35	23,970.00	2	3,210.00
86	Trinidad	Trinidad Street R'y Co.	12		7	3,600.00		
CONNECTICUT.								
88	Bridgeport	Bridgeport Horse R. R. Co.	12		69	35,777.87	3	4,912.50
89	Danbury	Danbury and Bethel Horse R'y Co.	12		35	17,922.13	5	1,518.00
90	Hartford	Hartford and Wethersfield Horse R'y Co.	12		148	75,136.35	5	4,300.00
91	Middletown	Middletown Horse R. R. Co.	12			5,200.00		200.00
92	New Britain	New Britain Tramway Co.	12		13	6,680.00		
93	New Haven	Fair Haven and Westville R. R. Co.	12		92	53,363.49	4	4,353.21
94	New Haven	New Haven and Centerville Horse R. R. Co.	12		14	9,828.00	2	2,040.00
95	New Haven	New Haven and West Haven Horse R. R. Co.	12		99	42,000.00	5	3,500.00
96	New Haven	State Street Horse R. R. Co.	12		22	12,709.11	5	2,414.00
98	Norwalk	Norwalk Horse R'y Co.	12		19	13,302.00	3	3,000.00
99	Norwich	Norwich Street R'y Co.	12		30	15,773.78	3	2,815.92
100	Stamford	Stamford Street R. R. Co.	12		18	9,128.25	3	1,200.00
101	Waterbury	Waterbury Horse R. R. Co.	12		41	20,175.79	3	1,410.63
102	Westport	Westport and Saugatuck Horse R. R. Co.	12		4	2,070.45	1	654.00
DELAWARE.								
103	Wilmington	Front and Union Street R'y Co.	12		10	4,713.00	2	1,188.00
104	Wilmington	Wilmington City R'y Co.	12		64	32,098.13	8	2,853.33

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RAILWAYS OPERATED BY ANIMAL POWER.

DRIVERS.		CONDUCTORS.		HOSTLERS AND BLACK- SMITHS.		OTHERS EMPLOYED IN BARN AND SHOPS.		SWITCHMEN, TRACKMEN, AND OTHERS EMPLOYED ON THE LINE.		UNCLASSIFIED AND MIS- CELLANEOUS.		No.
No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	
28	\$10,882.90									28	\$7,336.44	3
4	320.00			3	\$200.00							7
40	12,309.00	12	\$2,548.50	4	1,140.00	2	\$660.00	15	\$2,632.51	13	3,335.50	9
7	2,100.00							2	400.00			13
12	5,444.25			4	1,695.20	1	423.80	1	455.50			15
4	1,680.00			2	840.00							16
11	4,840.00			5	2,160.00	8	900.00	1	480.00			17
35	19,518.00	15	1,500.00	15	9,000.00			5	1,200.00			18
14	3,650.00			2	750.00			4	1,000.00			20
6	2,880.00			5	2,400.00							22
1	500.00											23
1	742.00			1	720.00							24
2				2							480.00	25
44	27,007.25			13	11,494.25	7	5,041.75	2	1,440.00			27
1												29
16	9,360.00	28	16,068.00	16	11,024.00	7	4,940.00	1	720.00			30
2	1,000.00			2	690.00							31
4	2,880.00			1	840.00	1	840.00					35
5	2,825.00			3	2,160.00							36
												37
2	900.00										1,440.00	39
3	1,642.50			2	912.50			1	547.50			40
1	480.00											41
1	1,563.00			2	183.35	1	406.00					42
												43
1	480.00											44
1	420.00											45
1	829.00											48
1	540.00											49
											2,401.76	50
16	10,060.00			10	6,746.00	1	730.00	3	1,886.25			51
4	2,190.00			9		2		4	1,486.12			52
28	20,230.20			21	13,627.60	5	2,791.50	9	5,541.21			53
33	23,912.00	16	11,956.00	23	17,960.35	8	4,584.92	12	8,506.12			57
54	44,195.70			6	4,019.40	1	720.00	2	2,112.50			58
12	8,746.10	12	8,746.10	38	27,832.00	10	8,440.00	10	9,775.00			60
62	46,328.00	62	46,328.00	7	4,529.94	2	1,507.17	7	4,652.45			63
8	6,826.10	2	1,706.52	2	1,380.00							64
6	4,927.50	6	4,927.50									66
												67
				2	1,500.00							69
3	1,800.00			2	850.00					12	8,000.00	70
2	1,260.00			1	540.00							72
3	1,681.76							1	365.00			73
6	2,400.00			2	800.00							74
				1	820.85							75
1	680.00	1	100.00					1	55.68	10	2,354.81	76
8	7,200.00			2	1,080.00			1	600.00			77
1	540.00											78
90	72,795.50			30		3		20			47,830.64	82
24	13,800.00			7	5,760.00			2	1,200.00			85
1	1,620.00			1	1,320.00			2	660.00			86
				14	7,321.70							88
20	8,425.38			10	7,978.75					52	23,543.67	89
46		37		24	13,190.97	25	3,196.66	11	4,698.45		49,750.27	90
	4,500.00				500.00							91
6	3,600.00	2	400.00	4	2,200.00			1	480.00			92
28	14,540.75	27	14,489.25	25	13,891.69	5	3,716.00	3	2,372.59			93
		7	4,784.00	11	2,704.00	1	300.00					94
30	12,000.00	30	12,000.00	25	10,000.00	5	2,000.00	4	2,500.00			95
7	4,681.02	4	1,459.19	5	3,658.15	1	496.75					96
5	4,992.00	5	3,120.00	3	2,190.00							98
9		1				7	2,756.28	10	4,984.80		5,216.78	99
8	4,613.25			5	2,546.75			2	768.25			100
14		7		11	8,306.70	3		3			10,398.46	101
2	1,068.00			1	348.45							102
5	2,525.00			1	400.00	2	600.00					103
20	16,380.00			12	6,104.80	7	4,316.00	7	2,444.00			104

STATISTICS OF TRANSPORTATION.

TABLE 4.—EMPLOYÉES AND WAGES, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		ALL EMPLOYÉS.		OFFICERS AND OFFICE EMPLOYÉS.	
			Months.	Days.	No.	Total salaries and wages paid.	No.	Total salaries paid.
	DIST. OF COLUMBIA.							
105	Washington	Anacostia and Potomac River R. R. Co	12	.....	30	\$8,048.96	9	\$1,200.00
107	Washington	Capitol, North O Street and South Washington R'y Co	12	.....	135	61,825.01	10	6,813.43
108	Washington	Columbia R'y Co	12	.....	51	29,062.33	4	.....
111	Washington	Metropolitan R. R. Co	12	.....	350	173,329.06	16	12,904.42
112	Washington	Washington and Georgetown R. R. Co	12	.....	364	279,195.28	15	24,129.99
	FLORIDA.							
113	Fort Meade	Fort Meade Street R'y Co	12	.....	1	525.00	.....	.....
114	Jacksonville	Jacksonville Street R. R. Co	12	.....	53	23,746.40	3	2,640.00
115	Jacksonville	Main Street R'y Co	12	.....	5	2,073.35	.....	.....
116	Orlando	Orlando Street R'y Co	12	.....	1	200.00	.....	.....
117	Palatka	Palatka and Heights Street R'y Co	12	.....	7	1,775.00	1	100.00
118	Pensacola	Pensacola Street Car Co	12	.....	16	7,057.70	2	924.00
	GEORGIA.							
120	Athens	Athens R'y Co	6	.....	9	.....	.....	.....
122	Atlanta	Atlanta Street R. R. Co	12	.....	94	54,728.64	5	7,728.64
125	Augusta	Augusta and Summerville R. R. Co	12	.....	65	34,334.60	5	5,716.62
127	Brunswick	Brunswick Street R. R. Co	12	.....	19	7,070.00	.....	.....
128	Columbus	Columbus R. R. Co	12	.....	19	7,375.00	.....	.....
129	Covington	Covington and Oxford Street R. R. Co	12	.....	6	1,800.00	2	500.00
132	Rome	North and South Street R. R. Co	12	.....	2	1,000.00	.....	.....
134	Savannah	City and Suburban R'y Co	12	.....	74	34,000.00	2	3,500.00
135	Savannah	Savannah Street and Rural Resort R. R. Co	12	.....	59	28,351.00	5	3,500.00
	ILLINOIS.							
136	Alton	Alton and Upper Alton Horse Railway and Carrying Co	12	.....	5	2,510.09	.....	.....
138	Aurora	Aurora City R'y Co	12	.....	18	7,404.50	11	1,000.00
139	Belleville	Citizens' Horse R'y Co	12	.....	7	2,280.00	.....	.....
140	Bloomington	Bloomington City R'y	12	.....	29	10,791.00	3	.....
141	Cairo	Cairo Street R'y Co	12	.....	9	3,648.85	1	200.00
146	Chicago	South Chicago City R'y Co	12	.....	17	.....	4	.....
148	Chillicothe	People's Street R. R. Co	12	.....	4	1,440.00	.....	.....
149	Danville	Citizens' Street R'y Co	12	.....	15	8,627.89	1	300.00
152	Freeport	Freeport Street R'y Co	12	.....	8	4,200.00	.....	.....
153	Galesburg	College City Street R'y Co	12	.....	15	.....	3	.....
154	Lasalle	Lasalle and Peru Horse and Dummy R. R. Co	12	.....	1	485.47	.....	.....
155	Mechanicsburg	Mechanicsburg and Buffalo R'y Co	12	.....	2	400.00	.....	.....
159	Peoria	Fort Clark Horse R'y Co	12	.....	31	17,279.43	4	2,920.00
160	Rockford	Rockford City R'y Co	12	.....	35	13,402.81	11	1,280.00
162	Springfield	Citizens' Street R'y Co	12	.....	34	14,437.50	2	1,320.00
163	Springfield	Springfield City R'y Co	12	.....	56	16,218.16	4	2,000.00
164	Urbana	Urbana and Champaign Street R'y Co	12	.....	9	4,488.76	1	1,000.00
	INDIANA.							
165	Anderson	Anderson Street R'y Co	12	.....	11	4,680.00	3	1,800.00
167	Evansville	Evansville Street R'y Co	12	.....	55	30,276.00	5	3,300.00
169	Fort Wayne	C. L. Centlivre Street R'y Co	12	.....	9	3,376.00	4	1,000.00
170	Fort Wayne	Fort Wayne Street R. R. Co	12	.....	64	34,994.75	7	2,700.00
171	Greencastle	Greencastle City Street R. R. Co	12	.....	10	2,395.00	2	1,095.00
172	Indianapolis	Citizens' Street R. R. Co	12	.....	482	290,000.00	12	17,000.00
173	Jeffersonville	Ohio Falls Street R'y Co	12	.....	12	5,442.10	.....	.....
175	Logansport	Logansport R'y Co	11	26	9	4,916.85	1	720.00
176	Madison	Madison Street R'y Co	12	.....	8	.....	.....	.....
177	Marion	Marion Street R. R. Co	6	.....	4	1,391.50	1	800.00
178	Michigan city	Citizens' Street R'y Co	12	.....	10	3,625.00	3	1,000.00
180	New Albany	New Albany R'y Co	12	.....	41	18,936.83	3	1,664.00
183	Terre Haute	Terre Haute Street R'y Co	12	.....	37	18,463.01	2	1,935.00
184	Terre Haute	Vigo County Street R'y Co	12	.....	2	200.00	.....	.....
	IOWA.							
186	Boone	Boone and Boonesboro Street R'y Co	12	.....	5	2,090.00	1	600.00
187	Burlington	Burlington Street R. R.	12	.....	8	3,737.50	2	1,000.00
188	Cedar Rapids	Cedar Rapids and Marion R'y	7	.....	7	1,546.15	2	280.00
189	Centerville	People's Street R'y Co	12	.....	5	1,985.00	.....	.....
192	Davenport	Davenport and Rock Island R'y Co	12	.....	78	45,487.99	7	5,599.99
196	Dubuque	Dubuque Street R'y Co	12	.....	6	734.60	.....	.....
198	Fort Madison	Fort Madison Street R'y Co	12	.....	11	5,800.00	1	800.00
199	Keokuk	Keokuk Street R'y Co	12	.....	11	4,620.00	1	600.00
200	Lyons	Clinton and Lyons Horse R'y Co	12	.....	16	9,588.00	1	1,500.00
201	Marshalltown	Marshalltown Passenger R'y Co	12	.....	5	2,233.64	1	480.00
203	Red Oaks	Red Oaks Street R'y Co	12	.....	1	960.00	.....	.....
206	Waterloo	Waterloo Street R'y Co	12	.....	3	870.00	1	90.00
	KANSAS.							
207	Abilene	Abilene Street R'y Co	12	.....	3	1,260.00	.....	.....
208	Arkansas city	Arkansas City Street R'y Co	12	.....	5	1,925.00	.....	.....
209	Atchison	Atchison Electric Street R'y Co .....	.....	.....	20	.....	1	60.00
210	Cottonwood Falls	Consolidated Street R'y Co	12	.....	4	1,140.00	3	1,500.00
211	Hutchinson	Hutchinson Street R'y Co	12	.....	18	8,708.75	.....	.....
213	Lawrence	Lawrence Transportation Co	12	.....	14	6,650.00	1	900.00
214	Leavenworth	Leavenworth and Suburban R'y	12	.....	16	8,073.00	1	1,000.00
216	McPherson	McPherson Street R'y Co	12		8	1,440.00		
217	Newton	Newton City Street R'y Co	12					

STREET RAILWAYS.

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TABLE 4.—EMPLOYEES AND WAGES, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

DRIVERS.		CONDUCTORS.		HOSTLERS AND BLACK-SMITHS.		OTHERS EMPLOYED IN BARNs AND SHOPS.		SWITCHMEN, TRACKMEN, AND OTHERS EMPLOYED ON THE LINE.		UNCLASSIFIED AND MISCELLANEOUS.		No.
No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	
77	\$35,177.06			19	\$9,070.29	16	\$5,873.51	13	\$4,890.72	21	\$6,848.96	105
30		7		8		2						107
115	62,587.48	102	\$45,511.01	62	26,759.13	11	8,520.20	53	17,046.82		29,062.33	108
92		92		63		42		60	8,673.41			111
											246,391.88	112
1	525.00											113
14	4,284.00	24	12,384.00	7	2,555.00	2	788.40	3	1,095.00			114
1	200.00									5	2,073.35	115
2	375.00	2	500.00					2	800.00			116
										14	6,133.70	117
												118
												120
39	24,000.00			50	23,000.00							122
15	9,212.50	10	1,270.00	8	3,588.95	2	1,186.25	25	13,360.28			125
12	5,100.00			11	500.00	2	300.00	3	1,170.00			127
12	5,475.00			2	1,000.00	5	900.00					128
3	1,080.00					1	220.00					129
2	1,000.00											132
25	9,300.00	25	12,600.00	2	1,500.00	16	5,900.00	4	1,200.00			134
15	4,900.00	15	9,985.00	12	5,466.00	4	3,000.00	8	1,500.00			135
		2	1,080.00	2	900.00					1	530.09	136
10	4,927.50			5	1,477.00							138
5	1,800.00			1	360.00	1	120.00					139
10				5		3		5			10,791.00	140
6	3,295.00									2	153.85	141
				3				2				146
10	1,080.00			1	360.00							148
10	6,167.89			2	1,080.00	1	540.00	1	540.00			149
4	2,500.00			2	800.00	2	900.00					152
				3				3				153
6												154
1	485.47			1	40.00							155
1	360.00			6	3,000.00	2	936.00					159
19	9,800.00											160
16	7,886.25			7	3,756.56			1	480.00			162
						10	4,602.00	2	840.00	20	7,675.50	163
17	4,300.00	15	4,518.16	10	3,000.00	10	2,400.00					164
3	1,082.63	3	1,591.37	2	814.76							165
				3	1,080.00							167
28	1,800.00			14	6,336.00	8	3,840.00					169
3	1,694.00			2	682.00							170
34	18,720.00			11	6,187.50	11	5,106.00	4	2,281.25			171
4		2	750.00	1	450.00			1	100.00			172
180	92,000.00	90	57,000.00	100	74,000.00	50		50			50,000.00	173
8	4,032.10									4	1,410.00	175
				1	225.75					7	3,971.10	176
										8		177
1	318.50	1	91.00	1	182.00							178
3	1,125.00					2	990.00	6	2,426.15	4	1,500.00	180
14	6,390.80	1	1,872.00	12	5,593.88	3	1,676.57	3	1,004.50	20	9,908.16	183
2	200.00			9	3,938.78							184
												186
2	1,030.00			1	100.00	1	360.00					187
3	1,368.75			2	912.50			1	456.25			188
3	866.15			1	120.00			1	280.00			189
2	900.00			1	535.00	1	450.00	1	100.00			192
42	24,192.00	1	576.00	24	12,960.00	2	1,080.00	2	1,080.00			196
	3,718.35				1,222.45		493.70		100.10			198
5	2,500.00			3	1,500.00			2	1,000.00			199
3	1,248.00	2	832.00	1	480.00	8	1,260.00	1	200.00			200
				6	3,564.00			1	540.00			201
8	3,984.00			1	450.00							203
3	1,303.64											206
1	960.00											207
1	780.00											208
												209
2	720.00			1	360.00			2				210
12	1,560.00			1	365.00							211
2	720.00			3	1,460.00			3	1,368.75			213
11	4,380.00											214
				3	1,200.00			1	374.00			216
11	4,176.00			11	2,368.32			1	475.32			217
9	4,229.36									8	1,440.00	217
2	840.00			1	420.00							

STATISTICS OF TRANSPORTATION.

TABLE 4.—EMPLOYÉS AND WAGES, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		ALL EMPLOYÉS.		OFFICERS AND OFFICE EMPLOYÉS.	
			Months.	Days.	No.	Total salaries and wages paid.	No.	Total salaries paid.
KANSAS—cont'd.								
219	Salina	Salina R'y Co.	12		5	\$1,800.00		
221	Topeka	Topeka City R'y Co.	12		118	43,137.51	5	\$4,869.96
223	Wichita	Wichita Rapid Transit Co.	12		1	480.00		
224	Winfield	Union Street R'y Co.	12		7	2,580.00	1	700.00
KENTUCKY.								
225	Bowling Green	Park City R'y	12		4	1,268.55		
226	Covington	South Covington and Cincinnati Street R'y Co.	12		163	79,306.00	11	8,903.00
227	Henderson	Henderson Street R'y Co.	12		12	5,167.00	2	1,020.00
228	Louisville	Louisville R'y Co.	12		746	382,290.46	50	50,017.76
229	Maysville	Maysville Street Railroad and Transfer Co.	12		10	4,040.00	1	720.00
231	Paducah	Paducah Street R'y Co.			26		2	
LOUISIANA.								
232	New Orleans	Canal and Claiborne R. R. Co.	12		95	46,802.20	3	4,519.00
233	New Orleans	Crescent City R. R. Co.	12		135	85,399.35	4	6,900.00
234	New Orleans	New Orleans and Carrollton R. R. Co.	12		130	80,463.00	6	10,200.00
237	New Orleans	Orleans R. R. Co.	12		44	21,774.52	4	2,143.52
238	New Orleans	Saint Charles Street R. R. Co.	12		115	73,910.00	4	8,300.00
MAINE.								
239	Biddeford	Biddeford and Saco R. R. Co.	12		24	9,193.98	2	980.98
240	Fryeburg	Fryeburg Horse R. R. Co.	12		1	300.00		
241	Portland	Portland R. R. Co.	12		115	56,686.32	4	3,926.54
MARYLAND.								
242	Baltimore	Baltimore and Powhatan R'y Co.	12		8	3,126.00	2	1,020.00
243	Baltimore	Baltimore City Passenger R'y Co.	12		781	402,449.54	14	19,919.34
244	Baltimore	Baltimore Traction Co.	12		243	120,943.80	10	4,885.89
245	Baltimore	Baltimore Union Passenger R'y Co.	12		251	126,373.81	12	11,800.89
246	Baltimore	Highlandtown and Point Breeze R'y Co.	12		28		3	
248	Baltimore	North Baltimore Passenger R'y Co.	12		187	106,000.00	8	10,500.00
MASSACHUSETTS.								
255	Boston	Newton Street R'y Co.	12		16	7,259.45		
256	Boston	North Woburn Street R. R. Co.	12		16	9,856.36		
260	Brockton	Brockton Street R'y Co.	12		53	37,255.48	2	3,595.68
262	Fall River	Globe Street R'y Co.	12		109	57,880.18	4	5,225.00
263	Fitchburg	Fitchburg Street R'y Co.	12		24	13,343.32	3	2,550.00
264	Gloucester	Gloucester Street R'y Co.	12		29	17,596.20	6	1,566.85
265	Haverhill	Haverhill and Groveland Street R'y Co.	12		43	20,327.35	3	2,650.00
266	Holyoke	Holyoke Street R'y Co.	12		27	14,028.33	5	1,816.00
267	Lawrence	Merrimack Valley Horse R. R. Co.	12		59	34,098.42	3	4,166.66
268	Lowell	Lowell and Dracut Street R'y Co.	12		57	35,913.96	3	2,500.00
269	Lowell	Lowell Horse R. R. Co.	12		126	71,013.69	5	5,250.00
271	Natick	Natick and Cochituate Street R'y Co.	12		12	5,344.45	4	1,550.00
272	New Bedford	Union Street R'y Co.	12		121	61,888.48	12	4,279.00
273	Newburyport	Newburyport and Amesbury Horse R. R. Co.	12		38	21,066.81	2	1,500.00
275	Northampton	Northampton Street R'y Co.	12		14	6,537.75	1	1,000.00
277	Pittsfield	Pittsfield Street R'y Co.	12		16	7,305.00	3	1,525.00
280	Taunton	Taunton Street R'y Co.	12		27	14,654.77	2	1,750.00
281	Wareham	East Wareham, Onset Bay and Point Independence Street R'y Co.	12		4	1,286.51		
282	Worcester	Worcester Consolidated Street R'y Co.	12		163	84,613.50	5	9,151.00
MICHIGAN.								
285	Detroit	Detroit City R'y	12		596	345,987.80	43	23,160.00
288	Detroit	Fort Wayne and Elnwood R'y Co.	12		152	79,670.28	5	7,146.25
291	Grand Rapids	Valley City Street and Cable R'y Co.	12			21,304.00		900.00
292	Jackson	Jackson City R'y Co.	12		17	8,164.00		
295	Saginaw	City of Saginaw Street R. R. Co.	12		25	15,156.00	3	2,700.00
MINNESOTA.								
298	Anoka	Anoka Street R'y Co.	12		8	5,220.00	5	3,600.00
299	Duluth	Duluth Street R'y Co.	12		41	28,130.62	5	2,210.75
300	Mankato	Mankato Street R'y Co.	12		8	3,670.68		
302	Minneapolis	Minneapolis Street R'y Co.	12		509	236,515.17	12	18,096.07
303	Saint Cloud	Saint Cloud City Street Car Co.	12		4	1,630.00	1	250.00
304	Saint Paul	Saint Paul City R'y Co.	12		207	112,844.71		
306	Winona	Winona City R'y Co.	12		18	6,786.00	5	900.00
MISSISSIPPI.								
307	Enterprise	Enterprise Street R'y Co.	12		1	25.00		
308	Jackson	Jackson City R'y Co.	12		17	8,581.00		
309	Meridian	Meridian Street R. R. Co.	12		14	5,500.00	2	1,200.00
310	Natchez	Natchez Street R. R. Co.			5			
MISSOURI.								
311	Carthage	Carthage Horse R'y Co.	3		7	800.00	1	300.00
312	Clinton	Clinton Street R'y Co.	12		5	1,230.00		
313	Hannibal	Hannibal R'y Co.	12		19	5,000.00	2	
315	Kansas city	Grand Avenue R'y Co.	12		12	5,002.80		
318	Kansas city	Metropolitan Street R'y Co.	12		73	36,966.30		

STREET RAILWAYS.

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TABLE 4.—EMPLOYEES AND WAGES, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

DRIVERS.		CONDUCTORS.		HOSTLERS AND BLACK-SMITHS.		OTHERS EMPLOYED IN BARN AND SHOPS.		SWITCHMEN, TRACKMEN, AND OTHERS EMPLOYED ON THE LINE.		UNCLASSIFIED AND MISCELLANEOUS.		No.
No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	
1	\$1,440.00					1	\$360.00					219
43	15,923.50	30	\$9,287.70	22	\$9,271.94	4	1,814.00	14	\$1,970.41			221
1	480.00											223
3	1,080.00			2	500.00			1	300.00			224
2	730.00	1	78.10	1	460.45							225
82	39,097.00			34	16,187.00	36	15,119.00					226
7	3,003.00			8	1,144.00							227
400	172,948.85	60	18,089.50	196	94,467.56	30	20,335.00	10	26,431.79			228
4	1,664.00			1	1,456.00			1	200.00			229
14						4		6				231
40	15,847.40			19	9,247.60	18	9,459.25	15	7,728.95			232
66	46,435.00			36	16,800.00	9	4,557.75	20	10,706.60			233
78	40,800.00			35	21,660.00	6	5,203.00	5	2,500.00			234
25				12		3					\$19,631.00	237
45	27,000.00			27	14,472.00	28	17,538.00	11	6,600.00			238
7	2,231.00	7	2,032.00	7	3,482.00			1	468.00			239
1	300.00											240
27	15,016.45	28	15,748.30	30	15,680.17	26	6,314.86					241
3	1,170.00					2	780.00	1	156.00			242
109	59,085.08			119	67,313.48	125	60,391.24	23	10,774.40	500	244,051.08	243
104		11		78	38,081.92	14	7,651.95	32	11,238.06			244
16				76	36,039.70	8	3,633.41	40	14,541.42		60,358.39	245
69	41,650.00			34	20,000.00	2						246
						12	6,500.00	64	27,350.00			248
										16	7,259.45	255
										16	9,356.36	256
16	11,180.00	16	11,180.00	12	6,396.00	5	3,536.00	2	1,367.80			260
9	4,452.18	6	3,032.10	2	1,418.23	3	212.09	1	1,678.72	105	52,655.18	262
9	6,448.62	9	4,848.62	5	4,732.11							263
14		12		12				2			17,677.35	264
7	4,459.00	8	5,096.00	6	2,020.33			1	637.00			265
												266
15		15		18	9,658.34	4		2	1,168.00	56	29,931.76	267
39	18,331.59	39	18,331.59	30	17,100.56						22,587.62	268
1		2		1				9	3,367.00	4	8,632.95	269
34	18,420.50	30	16,235.76	31	16,038.52	5	2,742.00	1			3,794.45	271
12	8,735.34	12	6,094.00	7	3,087.22	3		7	2,618.75	2	1,353.95	272
3	1,277.94	3	1,277.94	4	1,703.92	3	1,277.95	2			1,650.25	273
4	1,920.00	4	1,520.00	3	1,400.00							274
13	7,099.14			8	3,712.25			2	940.00			277
3	1,046.51	1	240.00					2	1,179.00	2	914.38	280
50		50		35		15						281
								8			75,462.50	282
174	103,200.30	162	103,477.50	170	89,870.00	8	4,380.00	39	21,900.00			285
48	20,795.02	35	20,994.96	51	25,141.27	7	3,119.28	6	2,473.50			288
	15,863.00		613.50		1,400.00				2,527.50			291
11	5,148.00			6	3,016.00							292
8	4,160.00	9	5,748.00	4	2,080.00			1	468.00			295
3	1,620.00											298
15	9,464.61							3	1,782.70	18	14,672.56	299
150	2,275.00	157		90		3	1,395.68	20			218,419.10	300
3	1,380.00											302
94	45,763.89			54		47		12	12,622.98		54,457.84	303
7	3,150.00			4	1,836.00	2	900.00					304
												306
1	25.00											307
11	5,149.00			6	3,432.00							308
5	1,800.00			2	700.00			5	1,800.00			309
3		1		1								310
3	275.00			2	150.00			1	75.00			311
3	1,080.00							2	150.00			312
5				2				10			5,000.00	313
8	3,351.75			4	1,651.05							315
				15	7,803.15	2	1,172.84	14	7,689.11			318

STATISTICS OF TRANSPORTATION.

TABLE 4.—EMPLOYÉS AND WAGES, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		ALL EMPLOYÉS.		OFFICERS AND OFFICE EMPLOYÉS.	
			Months.	Days.	No.	Total salaries and wages paid.	No	Total salaries paid.
MISSOURI—cont'd.								
320	Kansas city	North Kansas City Street R'y	9	18	5	\$942.25		
326	Saint Louis	Baden and Saint Louis R. R.	12		9	4,892.50	2	\$1,560.00
327	Saint Louis	Benton-Bellefontaine R'y Co.	12		78	48,712.00	3	3,000.00
328	Saint Louis	Cass Avenue and Fair Ground R'y Co.	12		118	68,000.00	8	5,000.00
330	Saint Louis	Forest Park, Laclede and Fourth Street R'y Co.	12		78	46,537.10	4	2,415.25
331	Saint Louis	Fourth Street and Arsenal R'y Co.	12		37	25,284.00	5	5,124.00
332	Saint Louis	Jefferson Avenue R. R. Co.	12		48	27,762.50	4	1,050.60
334	Saint Louis	Missouri R. R. Co.	12		87	44,305.17		
335	Saint Louis	Mound City Street R'y Co.	12		56	36,698.40	4	1,376.55
336	Saint Louis	Northern Central R'y Co.	12		101	54,000.00	8	3,000.00
339	Saint Louis	Saint Louis R. R. Co.	12		233	148,160.00	6	8,000.00
340	Saint Louis	Southern R'y Co.	12		120	50,894.55	5	6,111.50
341	Saint Louis	Union Depot R. R. Co.	12		235	117,060.60	7	7,160.30
342	Saint Louis	Union R. R. Co.	12		84	52,000.00	8	4,000.00
343	Sedalia	Sedalia Street R'y Co.	12		5	915.00		
344	Springfield	Citizens' R'y Co.	12		25	14,320.07	2	1,960.50
345	Warrensburg	Electric Springs R'y	4		1	160.00		
MONTANA.								
348	Helena	Helena Street R'y Co.	12		11	7,960.00	3	800.00
NEBRASKA.								
349	Beatrice	Beatrice Street R'y Co.	12		6	3,120.00	1	720.00
350	Fremont	Fremont Street R'y Co.	12		16	3,120.00	1	200.00
351	Grand Island	Grand Island Street R'y Co.	12		13	5,400.00	1	240.00
352	Hastings	Citizens' Street R'y Co.			2			
353	Kearney	Kearney Street R'y Co.	12		3	1,280.40		
354	Lincoln	Bethany Heights Street R'y Co.	12		4			
356	Lincoln	Lincoln Street R'y Co.	12		67	33,119.29	4	3,570.00
357	Lincoln	South Lincoln Street R'y.	12		1	450.00		
358	Lincoln	Standard Street R'y Co.	6		11			
359	Nebraska city	Nebraska City Street R'y Co.	12		7	2,638.00		
360	Norfolk	Norfolk Street R'y Co.	12		3	1,500.00		
362	Wymore	Wymore and Blue Springs R'y Co.	12		4	1,080.00	1	360.00
363	York	York Street R'y Co.	12		4	1,235.00	1	100.00
NEW HAMPSHIRE.								
364	Dover	Dover Horse R. R.	12		5	2,848.46	1	
365	Laconia	Laconia and Lake Village Horse R. R.	12		9	4,298.31	2	125.00
366	Manchester	Manchester Street R'y	9			20,029.03		
367	Nashua	Nashua Street R'y	12		29	11,542.11	5	2,616.80
NEW JERSEY.								
370	Camden	Camden Horse R. R. Co.	12		106	50,486.15	6	2,962.00
372	Jersey city	Jersey City and Bergen R. R. Co.	12		426	246,340.59	12	13,269.41
374	Keyport	Keyport and Matawan Street R'y Co.	12		12	4,590.00	1	720.00
375	Newark	Essex Passenger R'y Co.	12			235,982.21		9,950.00
376	Newark	Newark and Irvington Street R'y Co.	12		69	50,745.73	4	
377	Newark	Newark and South Orange Horse Car R. R.	12		126	137,848.24	12	73,945.52
379	Orange	Orange, Cross Town and Bloomfield R'y Co.	12		36	18,100.61	2	2,620.00
380	Paterson	Paterson R'y Co.	12		74	35,000.00	4	
381	Phillipsburg	Phillipsburg Car R. R. Co.	12		7	2,725.00	1	200.00
NEW MEXICO.								
382	Albuquerque	Albuquerque Street R. R. Co.	12		11	5,052.25	3	2,356.00
383	Las Vegas	Las Vegas Street R'y Co.	12		7	3,023.00	1	981.00
NEW YORK.								
385	Albany	North and East Greenbush Horse R. R. Co.	12		10	5,142.09	1	780.00
387	Amsterdam	Amsterdam Street R. R. Co.	12		5	2,016.25		
388	Auburn	Auburn City R'y Co.	12		12	4,456.75	1	300.00
389	Babylon	Babylon Horse R. R.	3		3	225.00		
390	Binghamton	Binghamton and Port Dickenson R. R. Co.	12		10			
392	Binghamton	Court Street and East End R. R. Co.	12		10	4,737.54	2	820.00
393	Brooklyn	Atlantic Avenue R'y Co.	12		510	289,713.50	13	23,934.77
394	Brooklyn	Broadway R. R. Co. of Brooklyn	12		362	199,824.82	6	13,143.20
395	Brooklyn	Brooklyn, Bushwick and Queens County R. R.	12		76	44,036.71	7	3,227.12
396	Brooklyn	Brooklyn City and Newtown R. R. Co.	12		292	175,464.03	7	10,584.92
397	Brooklyn	Brooklyn City R. R. Co.	12		3,207	1,738,448.37	24	46,100.00
402	Brooklyn	Coney Island and Brooklyn R. R. Co.	12		116	114,436.98	5	7,536.58
409	Brooklyn	Prospect Park and Coney Island R. R. Co. (City Div.)	12		115	79,985.97	1	938.00
410	Brooklyn	Prospect Park and Flatbush R. R. Co.	12		8	1,960.96	1	210.00
412	Brooklyn	South Brooklyn Central R. R. Co.	12		70	44,759.35		
413	Brooklyn	Van Brunt Street and Erie Basin R. R. Co.	12		20	11,048.19	1	1,164.72
414	Buffalo	Buffalo East Side Street R'y Co.	12		260	128,896.86	5	9,855.07
417	Canandaigua	Canandaigua Street R. R. Co.	12		9	2,511.85	1	415.00
418	Cortland	Cortland and Homer Horse R. R. Co.	12		10	4,826.49	2	1,328.00
420	Far Rockaway	Rockaway Village R. R. Co.	12		2			

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RAILWAYS OPERATED BY ANIMAL POWER—Continued.

DRIVERS.		CONDUCTORS.		HOSTLERS AND BLACK-SMITHS.		OTHERS EMPLOYED IN BARNs AND SHOPS.		SWITCHMEN, TRACKMEN, AND OTHERS EMPLOYED ON THE LINE.		UNCLASSIFIED AND MISCELLANEOUS.		No.
No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	
3	\$842.30					1	\$59.45	1	\$40.50			320
5	2,237.50			2	\$1,095.00							326
40	24,960.00			23	14,352.00	10	5,200.00	2	1,200.00			327
35	19,000.00	40	\$24,000.00	25	15,000.00	8	4,000.00	2	1,000.00			328
21	12,217.15	17	12,572.20	16	8,715.25					20	\$10,617.25	330
8	4,320.00	13	9,360.00	10	5,760.00	1	720.00					331
18	13,895.20			14	8,021.45	7	3,578.20	5	1,208.05			332
31	15,076.22	29	13,174.20	17	8,737.50	10	7,317.25					334
26	22,832.90			12	6,929.90	9	4,362.80	5	1,196.25			335
30	13,000.00	35	20,000.00	20	14,000.00	5	3,000.00	3	1,000.00			336
70	40,880.00	70	51,100.00	50	27,375.00	30	16,425.00	7	4,380.00			339
50	20,566.45	28	5,501.60	18	8,490.00	11	5,840.00	8	4,385.00			340
80	37,010.05	60	28,563.80	38	13,306.65					50	31,019.80	341
40	30,000.00			30	15,000.00	4	2,000.00	2	1,000.00			342
4	365.00					1	550.00					343
10	6,968.91			10	4,416.75	2	558.00	1	415.91			344
1	160.00											345
5	5,000.00					3	2,160.00					348
4	1,920.00			1	480.00							349
4	1,920.00			1	600.00			10	400.00			350
7	2,940.00			4	1,800.00			1	420.00			351
2												352
2	830.40					1	450.00					353
32	15,076.91			19	8,929.26	3	1,485.00	9	4,058.12	4		354
1	450.00											356
7				4								357
4	1,611.65			2	972.85			1	53.50			359
3	1,500.00											360
2	480.00			1	240.00							362
2	785.00			1	350.00							363
2				2							2,848.46	364
3		2		2							4,173.31	365
8		8		6				2			20,029.03	366
											8,925.31	367
130	67,666.90	100	48,199.25	21	8,045.85	2	1,716.00	21	7,438.02	56	30,324.28	370
6	2,520.00			74		27		83			117,205.03	372
	91,381.04			4	1,200.00	1	150.00					374
20		20	75,230.84	15			55,096.08	5	4,374.25		50,745.73	375
30	18,986.66	30	18,986.66	28	16,829.00	1	780.00	25	8,320.40			377
25	11,320.61			8	3,640.00			1	520.00			379
30		15		10		5		10			35,000.00	380
4	1,565.00			1	480.00	1	480.00					381
3				1	364.00	1	416.00				1,916.25	382
3	1,296.00	3		1	650.00			2	96.00			383
				1	547.50	1	100.00			9	4,362.09	385
3	1,368.75			5							2,493.65	388
6	1,663.10											389
2	150.00	1	75.00	10								390
5	2,590.45			3	1,327.09							392
150	74,711.14	150	74,711.15	70	62,340.18	50	33,106.77	77	20,909.49			393
112	55,656.87	120	55,656.86	62	32,028.41	35	18,409.62	27	24,929.86			394
20		20		13		4		12			40,809.59	395
107	53,187.65	106	53,187.65	27	30,051.83	30	20,788.27	15	7,663.71			396
976	499,065.65	933	443,061.27	586	294,516.05	449	273,474.81	239	177,230.59			397
30	32,326.09	36	31,945.77	26	23,217.14	5	4,477.69	8	14,933.71			402
40	26,756.64	40	26,756.64	23	18,899.76	5	3,755.42	6	2,899.51			409
3	818.46	2	400.00	3	532.50							410
25	14,696.49	25	14,696.49	12	10,038.91	4	2,704.00	4	2,623.46			412
8	5,110.12	8	3,285.13	2	1,300.00					1	788.22	413
57		68		75		2		53			119,041.79	414
4	1,180.50			4	916.35							417
										8	3,498.49	418
1										1		420

STATISTICS OF TRANSPORTATION.

TABLE 4.—EMPLOYÉS AND WAGES, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		ALL EMPLOYÉS.		OFFICERS AND OFFICE EMPLOYÉS.	
			Months.	Days.	No.	Total salaries and wages paid.	No.	Total salaries paid.
NEW YORK—cont'd.								
421	Frankfort	Frankfort and Iliou Street R. R. Co.	12	.....	3	\$879.05	.....	.....
422	Fredonia	Dunkirk and Fredonia R. R. Co.	12	.....	4	1,887.77	1	\$200.00
423	Fulton	Fulton and Oswego Falls Street R'y Co.	12	.....	6	2,600.00	1	500.00
424	Glens Falls	Glens Falls, Sandy Hill and Fort Edward Street R'y Co.	12	.....	16	6,763.79	2	960.00
426	Jamestown	Jamestown Street R'y Co.	12	.....	13	4,580.43	1	1,050.00
427	Johnstown	Johnstown, Gloversville and Kingsboro Horse R'y Co.	12	.....	5	2,722.41	1	150.00
428	Kingston	Kingston City R. R. Co.	12	.....	23	10,858.19	3	1,708.04
429	Lockport	Lockport Street R. R. Co.	12	.....	18	8,405.38	2	1,094.00
430	Long Island city	Long Island City and Newtown R. R. Co.	12	.....	23	8,120.75	.....	.....
431	Long Island city	Steinway and Hunters Point R. R. Co.	12	.....	108	65,568.01	4	4,987.00
432	Mohawk	Herkimer and Mohawk Street R. R. Co.	12	.....	3	2,205.25	.....	.....
433	Mohawk	Mohawk and Iliou Horse R. R. Co.	12	.....	.....	600.00	.....	.....
434	New Brighton	Staten Island Belt Line R. R. Co.	12	.....	20	9,951.93	2	1,587.00
435	Newburg	Newburg Street R'y Co.	12	.....	22	13,598.37	3	2,061.90
436	New York	Broadway and Seventh Avenue R. R. Co.	12	.....	1,069	605,118.95	18	34,328.06
437	New York	Central Cross Town R. R. Co.	12	.....	221	118,398.76	8	12,031.67
438	New York	Central Park, North and East River R. R. Co.	12	.....	543	327,267.43	10	23,492.52
439	New York	Chambers Street and Grand Street Ferry R. R. Co.	12	.....	122	60,287.53	5	3,647.15
440	New York	Christopher and Tenth Street R. R. Co.	10	.....	175	108,022.32	7	10,264.37
441	New York	Dry Dock, East Broadway and Battery R. R. Co.	12	.....	575	376,691.52	16	27,500.00
442	New York	Eighth Avenue R. R. Co.	12	.....	469	331,249.33	8	19,814.96
443	New York	Forty-second Street and Grand Street Ferry R. R. Co.	12	.....	220	132,589.36	10	17,284.94
444	New York	Forty-second Street, Manhattanville and Saint Nicholas Avenue R'y Co.	12	.....	426	225,307.70	10	15,192.90
445	New York	Harlem Bridge, Morrisania and Fordham R'y Co.	12	.....	176	108,105.07	4	9,565.48
446	New York	Houston, West Street and Pavonia Ferry R. R. Co.	12	.....	235	139,857.40	6	16,787.17
448	New York	Larchmont Horse R'y Co.	12	.....	6	2,261.10	1	250.00
451	New York	Mount Vernon and East Chester R'y Co.	12	.....	10	6,770.64	1	900.00
452	New York	New Rochelle and Pelham R'y Co.	12	.....	10	5,999.39	1	890.00
454	New York	New York and Harlem R. R. Co. (St. R'y Div.)	12	.....	524	384,099.44	16	23,693.08
455	New York	Ninth Avenue R. R. Co.	12	.....	205	127,836.77	8	5,244.90
456	New York	Pelham Park R. R. Co.	12	.....	6	2,933.00	1	600.00
457	New York	Second Avenue R. R. Co.	12	.....	656	412,770.81	6	17,449.88
458	New York	Sixth Avenue R. R. Co.	12	.....	504	324,052.73	22	29,026.09
461	New York	Twenty-third Street R'y Co.	12	.....	500	261,929.04	12	22,226.98
462	Niagara Falls	Niagara Falls and Suspension Bridge R'y Co.	12	.....	17	7,289.28	3	1,820.00
463	Ogdensburg	Ogdensburg Street R'y Co.	12	.....	7	2,811.00	.....	.....
464	Olean	Olean Street R'y Co.	12	.....	6	3,480.00	1	1,080.00
465	Oneida	Oneida R'y Co.	12	.....	5	2,100.00	2	840.00
466	Oneonta	Oneonta Street R'y Co.	12	.....	3	1,296.00	.....	.....
467	Oswego	Oswego Street R'y Co.	12	.....	7	2,965.03	1	200.00
469	Rochester	Rochester R'y Co.	12	.....	485	208,468.46	.....	.....
470	Rome	Rome City Street R'y Co.	12	.....	18	8,733.49	3	2,068.33
471	Schenectady	Schenectady Street R'y Co.	12	.....	10	5,496.04	.....	.....
472	Stillwater	Stillwater and Mechanicsville Street R'y Co.	12	.....	5	1,998.25	1	250.00
473	Syracuse	Central City R'y Co.	12	.....	28	13,440.33	2	1,685.00
474	Syracuse	Fifth Ward R. R. Co.	12	.....	28	13,844.30	4	2,960.00
475	Syracuse	Fourth Ward R'y Co.	12	.....	16	7,947.00	2	1,740.00
476	Syracuse	Genesee and Water Street R. R. Co.	12	.....	13	13,087.81	4	1,342.99
477	Syracuse	New Brighton and Onondaga Valley R. R. Co.	12	.....	5	1,967.76	.....	.....
478	Syracuse	People's R. R. Co. of Syracuse	12	.....	75	31,433.06	3	2,372.77
479	Syracuse	Syracuse and Geddes R'y Co.	12	.....	18	8,050.00	5	1,150.00
480	Syracuse	Syracuse and Onondaga R'y Co.	12	.....	14	7,616.66	2	1,506.00
482	Syracuse	Woodlawn and Butternut Street R'y Co.	12	.....	14	6,394.79	5	1,425.00
484	Troy	Troy and Albion Horse R. R. Co.	12	.....	22	13,952.34	3	2,200.00
487	Utica	Utica and Mohawk R. R. Co.	12	.....	12	5,536.59	6	1,940.00
NORTH CAROLINA.								
490	Charlotte	Charlotte Street R'y Co.	12	.....	9	2,628.00	1	480.00
491	Raleigh	Raleigh Street R'y Co.	12	.....	20	5,860.00	3	920.00
OHIO.								
493	Bellaire	Bellaire Street R'y Co.	12	.....	9	3,409.20	3	624.00
494	Berea	Berea Street R. R. Co.	12	.....	1	600.00	.....	.....
497	Cincinnati	Cincinnati Street R'y Co.	12	.....	629	477,225.00	15	25,900.00
498	Cincinnati	Mount Adams and Eden Park Inclined R'y	12	.....	66	37,284.25	5	4,500.00
502	Cleveland	Cleveland City Cable R'y Co.	12	.....	223	.....	9	.....
505	Cleveland	Woodland Avenue and West Side Street R. R. Co.	12	.....	338	164,688.17	8	8,610.00
506	Columbus	Columbus Consolidated Street R. R. Co.	12	.....	297	172,358.00	10	8,252.60
507	Columbus	Glenwood and Greenlawn Street R'y Co.	12	.....	9	6,770.00	2	690.00
509	Dayton	Dayton Street R. R. Co.	12	.....	46	21,868.00	9	2,434.00
510	Dayton	Fifth Street R. R. Co.	12	.....	54	20,659.33	3	1,828.00
511	Dayton	Oakwood Street R'y Co.	12	.....	23	14,832.00	3	3,732.00
512	Dayton	Wayne and Fifth Street R. R. Co.	12	.....	22	11,850.66	2	1,144.00
513	Findlay	Blanchard Avenue Street R'y Co.	12	.....	8	3,450.00	.....	.....
514	Findlay	Findlay Street R'y Co.	12	.....	15	8,587.00	1	1,000.00
515	Findlay	Lima Avenue Street R'y Co.	12	.....	5	2,737.50	.....	.....
516	Findlay	Wyoming Place and Findlay Street R'y Co.	12	.....	2	595.00	.....	.....
517	Fremont	Fremont Street R'y Co.	12	.....	5	2,740.00	1	780.00
520	Lorain	Lorain Street R'y Co.	12	.....	4	1,560.00	1	300.00
522	Middletown	Middletown and Madison Street R'y Co.	12		4	1,684.00	2	800.00
524	Newark	Newark City R'y Co.	12		14	7,783.00	1	1,500.00

STREET RAILWAYS.

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TABLE 4.—EMPLOYEES AND WAGES, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

DRIVERS.		CONDUCTORS.		HOSTLERS AND BLACK-SMITHS.		OTHERS EMPLOYED IN BARNs AND SHOPS.		SWITCHMEN, TRACKMEN, AND OTHERS EMPLOYED ON THE LINE.		UNCLASSIFIED AND MISCELLANEOUS.		No.
No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	
2	\$1,087.77	1	\$420.00	2	\$459.08							421
3	1,260.00	1	600.00	1	420.00	1	\$420.00					422
6	2,880.00			1	540.00	5	2,100.00	1	\$216.00	1	\$67.79	423
				6	1,848.01					1	1,682.42	426
2	1,393.18			2	1,179.23							427
8	4,584.11									12	4,566.04	428
13		4		2		3		1		16	7,311.38	429
											8,120.75	430
										104	60,581.01	431
		1	725.25							2	1,480.00	432
		1	600.00									433
5	2,795.44	5	1,041.90	4	2,915.98	1	548.41	3	1,063.20			434
10	5,696.66									9	5,839.81	435
260		260								531	570,790.89	436
												437
153	93,240.48	144	93,240.48	110	68,894.13					213	106,367.09	437
40		40								136	48,399.82	438
50		50		22	4,165.81	22		24		37	56,640.38	439
153	91,300.00	159	91,354.24	72	47,804.64	75	47,611.20	100	71,121.44		93,592.14	440
												441
119	87,424.50	119	87,424.50	84	49,440.35	75	47,469.02	64	39,676.00			442
75	44,220.67	75	44,220.66							60	26,863.09	443
				84	51,222.26	21	12,347.10	81	30,438.07	230	116,107.37	444
45	24,651.69	45	24,651.69	38	23,568.43	16	11,061.54	28	14,606.24			445
76	37,661.45	76	37,661.45	28	19,087.99	21		28			28,659.34	446
												447
2	967.10			1	144.00	1	480.00	1	420.00			448
6	3,954.39			3	1,916.25							451
5	2,985.25			1		2		1	450.00		1,724.14	452
140	98,157.72	140	98,157.73	103	70,175.17	79	68,410.66	46	25,505.08			454
60		60		43		27		7			122,591.87	455
												456
4	1,833.00			1	500.00							457
				126	85,814.44	18	13,245.82	64	31,981.72	650	395,320.93	457
168	78,426.26	168	78,426.25	72		40		40		274	163,984.66	458
4	1,486.39	4	1,486.38	5	2,016.51			1	480.00		82,849.55	461
												462
5	2,000.00			2	811.00							463
3	1,500.00			1	480.00			1	420.00			464
2	900.00			1	360.00							465
2	864.00			1	432.00							466
3	1,389.89			1	360.00	2	1,015.14					467
												468
8	3,215.12									485	208,468.46	469
	2,189.25				771.80				1,434.99	7	3,450.04	470
3	1,298.25			1	450.00					10		471
9	3,282.84	9	3,282.85	8	5,189.64							472
												473
13	5,885.79			8				3			4,998.51	474
5	2,430.00			6	2,980.00	2	365.00	1	432.00			475
4		2		3							11,744.82	476
3	1,500.00			1	420.00					1	47.76	477
22	8,543.57	22	8,543.57	2	1,380.00	26	10,593.15					478
												479
6	3,240.00			3	1,800.00	1	540.00	3	1,320.00			480
5		3						4	2,558.49		3,552.17	481
4	2,171.47			4	2,373.32			1	425.00			482
7		7		5	3,198.28						8,554.06	484
4	2,449.72			2	1,146.87							487
												488
												489
5	1,500.00			3	648.00							490
12	3,320.00			2	720.00			3	900.00			491
												492
												493
1	600.00			1	510.20	1	455.00			4	1,820.00	493
												494
21	11,092.55	21	11,241.70	130	93,560.00	56	35,048.00	78	27,825.00	350	294,892.00	497
63		71		12	7,250.00	5	2,200.00	2	1,000.00			498
				65		15						502
												503
90	65,104.10	80	40,000.00	80	20,100.10	5	4,107.00	70	20,973.00	5	5,793.97	505
12	50,232.00	83	51,360.40	56	31,031.00	24	12,244.20	32	19,237.80			506
5	5,040.00			2	1,040.00							507
9	9,301.00			11	6,864.00	2	1,897.00	4	1,872.00			509
20	11,135.88	6	261.45	11	4,812.00	5	2,150.00	2	472.00			510
												511
12	6,240.00			5		2		1	200.00		4,660.00	511
15	7,898.66			5	2,808.00							512
6	2,700.00			2	750.00							513
10	5,475.00			3	1,642.50			1	469.50			514
3				2							2,737.50	515
												516
2	595.00											517
2	1,040.00			2	920.00							520
2	840.00			1	420.00							522
2	884.00											522
7	3,449.25			4	1,825.00	1	552.50	1	456.25			524

TABLE 4.—EMPLOYEES AND WAGES, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		ALL EMPLOYÉS.		OFFICERS AND OFFICE EMPLOYÉS.	
			Months.	Days.	No.	Total salaries and wages paid.	No.	Total salaries paid.
OHIO—continued.								
527	Sandusky	Sandusky Street R'y Co.	12		11	\$6,400.00	2	\$1,600.00
528	Springfield	Citizens' Street R. R. Co.	12		32	18,511.30	2	3,000.00
530	Tiffin	Tiffin Street R'y Co.	12		16	8,160.00	3	1,000.00
531	Toledo	Toledo Consolidated Street R'y Co.	12		267	128,312.37	17	10,081.00
532	Youngstown	Youngstown Street R. R. Co.	12		16	6,325.00	3	1,100.00
533	Zanesville	Zanesville and McIntire Street R'y Co.	12		27	10,950.00	3	2,000.00
OREGON.								
534	Albany	Albany Street R'y Co.	6		3			
535	Astoria	Astoria Street R'y Co.	12		9	6,977.40	1	1,200.00
537	Portland	Multnomah Street R'y Co.	12		21	18,929.00	3	3,600.00
541	Portland	Portland Street R'y Co.	12		16	10,720.00	4	2,280.00
542	Portland	Transcontinental Street R'y Co.	12		66	39,186.50	3	3,000.00
PENNSYLVANIA.								
545	Altoona	City Passenger R'y Co.	12		21	10,835.21	4	1,765.00
546	Beaver Falls	Beaver Valley Street R'y Co.	12		19	10,593.75	2	1,270.00
547	Bradford	Bradford and Kendall Street R'y Co.	12		3	1,638.00		
548	Chester	Chester Street R'y Co.	12		23	16,530.28	3	3,050.00
549	Easton	Easton, South Easton and West End Passenger R'y Co.	12		14	5,686.04		
553	Harrisburg	Harrisburg City Passenger R'y Co.	12		32	15,299.25	3	2,341.31
554	Lancaster	Lancaster and Millersville R. R. Co.	12		4	2,624.07	1	820.00
555	Lancaster	Lancaster City Street R'y Co.	12		15	6,980.22	1	475.00
556	Lancaster	West End Street R'y Co.	12		3	1,170.00		
557	McKeesport	McKeesport Passenger R'y Co.	12		8	4,740.00	1	900.00
558	Norristown	Citizens' Passenger R'y Co.	12		12	6,077.49	2	702.00
559	Norristown	Norristown Passenger R'y Co.	12		10	4,032.39	1	600.00
561	Philadelphia	Citizens' Passenger R'y Co.	12		187	126,523.79	7	12,540.00
565	Philadelphia	Hestonville, Mantua and Fairmount Passenger R. R. Co.	12		247	154,819.27	6	8,033.66
567	Philadelphia	Lombard and South Streets Passenger R'y Co.	12		282	94,755.43	3	4,025.00
568	Philadelphia	Manayunk and Roxboro Inclined Plane and R'y Co.	12		13	7,281.40	3	1,425.00
569	Philadelphia	People's Passenger R'y Co.	12		669	458,275.97	19	17,155.52
570	Philadelphia	Philadelphia and Grays Ferry Passenger R'y Co.	12			66,424.00		6,400.00
571	Philadelphia	Philadelphia City Passenger R'y Co.	12		2	1,900.00	2	1,900.00
573	Philadelphia	Ridge Avenue Passenger R'y Co.	12		251	121,989.00	5	11,760.00
574	Philadelphia	Second and Third Streets Passenger R'y Co.	12		359	231,769.68	7	15,450.00
576	Philadelphia	Thirteenth and Fifteenth Streets Passenger R'y Co.	12		254	174,763.05	7	9,351.59
585	Pittsburg	Mount Oliver Incline R'y Co.	12		9	6,383.00		
587	Pittsburg	Pittsburg, Allegheny and Manchester Passenger R'y Co.	12		172	105,535.58	7	6,302.00
589	Pittsburg	Pittsburg and Birmingham Traction Co.	7	12	112	45,258.36	2	1,606.25
590	Pittsburg	Pittsburg and West End Passenger R'y Co.	12		38	26,249.74	3	3,310.00
593	Pittsburg	Pittsburg Union Passenger R'y Co.	12		75	41,446.51	6	2,650.00
598	Pittston	Pittston Street Car Co.	12		4	1,892.00	1	392.00
601	Reading	Reading City Passenger R'y Co.	12		95	45,195.79	5	3,020.00
603	Stroudsburg	Stroudsburg Passenger R'y Co.	12		10	2,730.00	2	600.00
605	Wilkesbarre	Coalville Passenger R. R. Co.	12		9	3,617.73	2	1,200.00
606	Wilkesbarre	Wilkesbarre and Kingston Passenger R'y Co.	12		15	7,556.12	2	1,500.00
609	Williamsport	Williamsport Passenger R'y Co.	12		18	7,062.60	3	1,215.00
610	York	York Street R'y Co.	12		15	4,756.21	5	766.50
RHODE ISLAND.								
612	Pawtucket	Pawtucket Street R'y Co.	12		41	24,874.91	5	3,894.97
613	Providence	Providence Cable Tramway Co.	6		41	10,470.00	1	289.73
614	Providence	Union R. R. Co.	12		710	421,282.55	30	34,319.42
615	Woonsocket	Woonsocket Street R'y Co.	12		27	7,464.00	1	676.00
SOUTH CAROLINA.								
616	Charleston	Charleston City R'y Co.	12		47	25,620.00	4	5,600.00
617	Charleston	Enterprise R. R. Co.	12		44	18,518.17	5	3,560.00
618	Charleston	Middle Street Sullivan's Island R'y Co.	12		5	1,425.00	2	450.00
619	Greenville	Street R'y Co. of the City of Greenville	12		9	1,924.00		
620	Orangeburg	Orangeburg City Street R'y Co.	12		8	1,035.00	2	200.00
SOUTH DAKOTA.								
621	Deadwood	Deadwood Street R'y Co.	12		1	720.00		
622	Pierre	Pierre City R'y Co.	12		7		2	
623	Rapid city	Rapid City Street R. R. Co.	12		2	845.00	1	125.00
624	Sioux Falls	Sioux Falls City Street R'y Co.	12		14	5,100.00	4	900.00
627	Yankton	Yankton Street R'y Co.	2	23	4	420.00		
TENNESSEE.								
628	Bristol	Bristol Street Car Co.			4			
630	Chattanooga	City Street R. R. Co.	12		36	15,770.00	4	4,000.00
631	Clarksville	Clarksville Street R'y Co.	12		8	2,858.00	1	50.00
632	Cleveland	Cleveland Street R'y Co.	12		3	380.00		
633	Columbia	Columbia Street R'y Co.	12		3	960.00	1	300.00
634	Jackson	Jackson and Suburban Street R. R.	12		9		2	
636	Knoxville	West End Street R. R. Co.	12		7	2,515.00	2	690.00
638	Murfreesboro	Murfreesboro Street Car R'y Co.			7		1	

STREET RAILWAYS.

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TABLE 4.—EMPLOYEES AND WAGES, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

DRIVERS.		CONDUCTORS.		HOSTLERS AND BLACK-SMITHS.		OTHERS EMPLOYED IN BARNs AND SHOPS.		SWITCHMEN, TRACKMEN, AND OTHERS EMPLOYED ON THE LINE.		UNCLASSIFIED AND MISCELLANEOUS.		No.
No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	
6				2				1		30	\$4,800.00 15,511.30	527
5	\$2,600.00	2	\$1,700.00	3	\$1,560.00	8	\$1,300.00					528
114	51,480.00	32	11,628.81	4	43,512.56	12	8,600.86	6	\$3,009.14			530
5	2,555.00			4	1,800.00	3	275.00	1	595.00			531
11	5,000.00	6	900.00	6	2,650.00			1	400.00			532
												533
3												534
5	4,037.40									3	1,740.00	535
11	10,010.00			4	3,129.00	2	1,460.00	1	730.00	2	720.00	537
11	6,520.00			2	1,200.00							541
40	26,050.50			12	6,750.00	8	1,436.00	3	1,950.00			542
8	5,067.27			7	3,165.00			2	837.94			545
9	5,177.25			4	2,268.50	2	939.00	2	939.00			546
1	546.00	1	546.00	1	546.00							547
1	7,951.75			9	5,528.53							548
5		2		6	1,793.00	1	416.00				3,477.04	549
1	520.00	1	624.00	8	3,967.63					21	8,990.31	553
				1	660.07							554
2	780.00			1	390.00					14	6,505.22	555
4	2,160.00			3	1,680.00							556
												557
6	3,384.25			11	1,991.24							558
4	1,877.14			1	1,405.25			1	150.00			559
60	39,682.27	60	39,682.27	29	17,337.43	21	11,259.16	10	6,022.66			561
74		53		44	34,521.27	18	10,307.74	52	18,866.56		83,090.04	565
88	34,444.25	88	34,444.25							103	21,841.93	567
3	1,916.25	3	2,190.00	2	1,092.00			1	365.00	1	293.15	568
205	21,708.00	205	21,708.00	104	70,216.18	60	42,955.42	76	29,426.42		298,522.43	569
											16,608.00	570
												571
										246	110,229.00	573
74	54,102.64	75	56,087.80	51	29,144.40	27	17,137.16	20	8,939.46	352	216,319.68	574
5	3,600.00			2	1,460.00			2	1,323.00			576
40	30,571.62	49	30,571.63	42	24,389.11	8	4,718.47	13	7,040.68	4	1,942.07	585
30		30		35	13,416.29	3	1,766.49	3	1,106.23		27,363.10	587
												589
19	13,771.58			13	6,672.86	1	702.00	2	1,092.00		701.30	590
40	24,757.89			14	7,280.00	4	2,490.62	11	4,268.00			593
1	480.00	1	540.00	1	480.00							598
										90	42,175.79	601
2	325.00	1	360.00	1	175.00	4	1,270.00					603
2	720.00	2	720.00	2	780.00			1	197.73			605
7	2,940.00	3	1,676.18			3	1,440.00					606
10	4,398.25	1	293.50	4	1,755.85							609
										10	3,989.71	610
18	11,793.69			12	6,216.69	4	2,547.42	2	422.14			612
14	3,833.51	14	3,290.58	12	3,056.18							613
195	126,647.65	170	122,936.15	155	80,659.52	107	45,213.06	53	11,506.75			614
8	1,700.00	8	1,500.00	4	1,482.00	2	962.00	4	1,144.00			615
27	14,040.00			12	4,680.00	4	1,300.00					616
20	9,282.60							5	1,561.14	14	4,114.43	617
2	375.00	1	600.00									618
3	728.00			2	364.00			1		4	832.00	619
4	800.00									1	25.00	620
1	720.00											621
2				2		1						622
1	720.00											623
6	2,520.00			3	1,260.00			1	420.00			624
2	180.00					1	120.00	1	120.00			627
4												628
26	9,000.00			2	520.00	2	1,500.00	2	750.00	2	728.00	630
5	2,080.00											631
11	380.00											632
2	660.00					2						633
5				2	730.00							634
3	1,095.00			2		1						636
3				2								638

STATISTICS OF TRANSPORTATION.

TABLE 4.—EMPLOYÉS AND WAGES, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		ALL EMPLOYÉS.		OFFICERS AND OFFICE EMPLOYÉS.	
			Months.	Days.	No.	Total salaries and wages paid.	No.	Total salaries paid.
TEXAS.								
643	Denison	Denison Street R'y	12	-----	7	\$2,827.50	1	\$547.50
644	El Paso	El Paso Street R'y Co	12	-----	13	8,620.80	1	1,080.00
645	El Paso	Santa Fe Street R'y Co	12	-----	11	3,290.42	3	825.00
648	Gainesville	Gainesville Street R'y Co	12	-----	9	4,320.00	1	720.00
649	Galveston	Galveston City R. R. Co	6	-----	99	28,633.33	7	3,431.35
651	Houston	Houston City Street R'y Co	12	-----	123	34,001.93	6	6,082.53
653	Longview	Longview and Junction R'y Co	12	-----	1	300.00	-----	-----
654	Marshall	Marshall Street Railway and Transportation Co	12	-----	2	-----	1	-----
655	Paris	Paris R'y Co	12	-----	10	4,644.00	1	660.00
656	San Antonio	Cross Town R. R. Co	12	-----	2	1,050.00	-----	-----
658	Sherman	Sherman City R. R. Co	-----	-----	9	-----	-----	-----
659	Victoria	Victoria Street Railway and Improvement Co	-----	-----	4	-----	-----	-----
660	Waco	Waco Street R'y Co	12	-----	21	9,660.00	1	1,000.00
661	Waxahachie	Waxahachie Street R'y Co	12	-----	5	1,350.00	-----	-----
662	Weatherford	Weatherford City and Suburban R. R. Co	1	-----	6	140.00	-----	-----
VERMONT.								
664	Burlington	Winooski and Burlington Horse R. R. Co	12	-----	20	7,090.00	4	850.00
665	Rutland	Rutland Street R'y Co	12	-----	15	6,896.82	2	1,026.25
VIRGINIA.								
666	Charlottesville ...	Charlottesville and University Street R'y Co	12	-----	-----	3,022.00	-----	1,620.00
668	Lynchburg	Lynchburg Street R'y Co	12	-----	20	6,489.58	3	1,050.00
669	Norfolk	Berkley Street R'y Co	1	17	4	289.25	1	150.00
670	Norfolk	Norfolk City R. R. Co	12	-----	43	23,354.92	5	4,637.00
671	Norfolk	Suburban and City Railway and Improvement Co	12	-----	30	11,038.83	3	1,200.00
672	Portsmouth	Portsmouth Street R'y Co	12	-----	11	4,284.00	-----	-----
673	Richmond	Richmond and Manchester R'y Co	12	-----	19	10,106.13	3	2,916.66
675	Roanoke	Roanoke Street R'y Co	12	-----	14	5,496.00	2	840.00
WASHINGTON.								
676	Olympia	Olympia R'y Co	12	-----	4	2,100.00	1	750.00
684	Spokane	Spokane Street R'y Co	6	-----	25	5,600.00	3	2,000.00
685	Wallawalla	Wallawalla Street Railway and Investment Co	12	-----	13	7,450.00	1	1,000.00
WEST VIRGINIA.								
687	Parkersburg	Park City Street R'y	12	-----	8	3,780.00	1	900.00
WISCONSIN.								
693	Fond du Lac	Fond du Lac Street R'y Co	12	-----	15	6,084.50	1	1,200.00
694	Lacrosse	Lacrosse and Onalaska Street R'y Co	1	-----	5	-----	2	-----
695	Lacrosse	Lacrosse City R'y Co	12	-----	31	14,463.18	4	2,245.00
696	Madison	Madison City R'y Co	12	-----	18	7,756.00	1	1,000.00
697	Milwaukee	Cream City R'y Co	3	-----	169	26,930.68	6	2,000.52
699	Milwaukee	Milwaukee City R. R. Co	12	-----	278	140,768.66	11	11,806.54
702	Oshkosh	Oshkosh Street R. R. Co	12	-----	11	-----	1	-----
703	Racine	Belle City Street R'y Co	12	-----	22	12,300.00	2	1,800.00
704	Sheboygan	Sheboygan City R'y	-----	-----	11	-----	1	-----
WYOMING.								
706	Cheyenne	Cheyenne Street R. R. Co	6	-----	6	1,987.00	-----	-----

STREET RAILWAYS.

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TABLE 4.—EMPLOYEES AND WAGES, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

DRIVERS.		CONDUCTORS.		HOSTLERS AND BLACK-SMITHS.		OTHERS EMPLOYED IN BARN AND SHOPS..		SWITCHMEN, TRACKMEN, AND OTHERS EMPLOYED ON THE LINE.		UNCLASSIFIED AND MISCELLANEOUS.		No.
No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	
4	\$1,680.00	2	\$600.00									643
6	4,520.00	1	900.00	3	\$1,400.80	1	\$420.00	1	\$300.00			644
3	1,260.00	1	300.00	1	202.00	1	230.92	2	472.50			645
6	2,700.00					1	450.00	1	450.00			648
50	13,133.12			18	5,133.37	13	3,971.16	11	2,964.33			649
50	19,385.07			22	2,700.27	5	2,750.64	40	3,074.42			651
1	300.00											653
1												654
6	2,652.00				968.00			1	364.00			655
1	450.00							1	600.00			656
6				2		1						658
3				1								659
13	5,460.00			5	2,500.00	2	700.00					660
2	900.00	1	100.00	1	150.00			1	200.00			661
3	45.00			2	50.00			1	45.00			662
5	2,080.00	3	1,248.00	5	1,820.00	3	1,092.00					664
4	1,859.00	2	1,040.00	4	1,950.00	1	202.69	2	818.88			665
												666
	1,002.00				400.00							668
7	3,193.75			8	1,898.00	1	87.83			1	\$260.00	669
2	106.25			1	33.00							670
15	8,215.00	10	5,475.00	8	2,808.00	3		2			2,219.92	671
12	5,865.00	6	951.00	6	2,522.00	1	364.00	2	126.83			672
6	2,808.00			3	800.00	1	364.00	1	312.00			673
9				5				2			7,189.47	675
4	1,920.00			6	2,136.00			2	600.00			676
												684
1	600.00			1	300.00	1	450.00					685
14	1,800.00			4	600.00	2	600.00	2	600.00			687
8	4,000.00			2	1,000.00	1	700.00	1	750.00			693
												694
4	1,680.00			3	1,200.00							695
												696
7		2		1		4		1	104.50		4,780.00	697
1								1				699
16	7,488.00			9	3,770.18	2	360.00					702
9	3,780.00			1	576.00	5	1,980.00	2	420.00			703
63	10,047.08	34	4,022.83	36	4,703.62	18	3,191.06	12	2,965.57			704
126	62,495.26	24	5,999.55	70	39,076.21	26	13,629.98	21	7,761.12			706
10												
10	6,000.00			10	4,500.00							
6				3				1				
1	1,272.00			1	265.00			1	450.00			

TABLE 4.—EMPLOYÉS AND WAGES, FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		ALL EMPLOYÉS.		OFFICERS AND OFFICE EMPLOYÉS.	
			Months.	Days.	No.	Total salaries and wages paid.	No.	Total salaries paid.
CALIFORNIA.								
71	SAN JOSE	San Jose and Santa Clara R'y Co	3		36		2	
COLORADO.								
79	Denver	Colfax Avenue Electric R. R. Co	1	15	24	\$1,965.00	2	\$300.00
83	Denver	Denver Tramway Co	12		194	55,858.30	4	6,473.74
84	Denver	University Park Railway and Electric Co	4	24	12	4,037.50	1	475.00
CONNECTICUT.								
87	Birmingham	Derby Street R'y Co	12		19	11,419.97	1	906.75
90	Hartford	Hartford and Wethersfield Horse R'y Co	12		4	2,300.00		
DELAWARE.								
104	Wilmington	Wilmington City R'y Co	6		27	8,582.38	8	713.38
DIST. OF COLUMBIA.								
109	Washington	Eckington and Soldiers' Home R'y Co	12		36	23,594.10		
110	Washington	Georgetown and Tennallytown R'y Co	4	6	29	4,307.90		
GEORGIA.								
121	Atlanta	Atlanta and Edgewood Street R. R. Co	10	0	14	6,270.00	3	1,070.00
123	Atlanta	Fulton County Street R. R. Co	12		53	27,059.22	4	3,655.00
126	Augusta	Augusta R'y Co			79		5	
ILLINOIS.								
150	Decatur	Citizens' Electric Street R'y Co	12		20	12,675.00	1	1,500.00
151	East Saint Louis	Saint Louis and East Saint Louis Electric R'y Co	12		24	18,000.00	5	
156	Moline	Moline Central Street R'y Co	8	15	6	3,240.00	1	300.00
157	Ottawa	Ottawa Electric Street R'y Co			19		2	
158	Peoria	Central R'y Co	12		91	55,846.00	8	7,000.00
INDIANA.								
166	Elkhart	Citizens' Street R'y Co	12		12	5,890.00	2	500.00
174	Lafayette	Lafayette Street R'y Co	12		10	4,494.35	2	1,016.00
181	Richmond	Richmond City R'y Co	12		13	7,320.00	3	2,500.00
IOWA.								
191	Council Bluffs	Omaha and Council Bluffs Railway and Bridge Co	12		83	66,274.20	3	4,180.00
193	Davenport	Davenport Central R'y Co	12		19	10,770.00	2	1,600.00
202	Ottumwa	Ottumwa Railway, Electric and Steam Co	7	3	30		3	
205	Sioux city	Sioux City Street R'y Co	1		79	4,392.00	4	448.00
KANSAS.								
222	Topeka	Topeka Rapid Transit R'y Co	12		100	41,981.72	3	3,900.00
MARYLAND.								
247	Baltimore	North Avenue R'y Co. of Baltimore City	1	14	9		2	
MASSACHUSETTS.								
249	Attleboro	Attleboro, North Attleboro and Wrentham Street R'y Co	11		14	6,871.59	2	1,172.66
250	Beverly	Beverly and Danvers Street R'y Co	11		5	3,440.06		
252	Boston	Boston and Revere Electric Street R'y Co	12		13			
257	Boston	Quincy and Boston Street R'y Co	12		15	10,240.28	3	2,572.80
261	Brockton	East Side Street R'y Co	12		9	7,128.51	1	1,195.75
268	Lowell	Lowell and Dracut Street R'y Co	12		14	8,248.68		
270	Marlboro	Marlboro Street R'y Co	12		20	9,252.84	4	624.00
273	Newburyport	Newburyport and Amesbury Horse R. R. Co	12		11	2,776.00	1	500.00
274	North Adams	Hoosac Valley Street R'y Co	12		15	10,521.46	2	2,383.20
278	Plymouth	Plymouth and Kingston Street R'y Co	12		10	7,144.89	4	1,175.00
MICHIGAN.								
283	Adrian	Adrian City Electric Belt R'y Co	11		7	3,400.00		
284	Bay city	West Bay City Street R'y Co	8		29		3	
286	Detroit	Detroit, Rouge River and Dearborn R'y Co			3			
287	Detroit	East Detroit and Grossepoint R'y Co	12		15	6,776.96	1	900.00
289	Detroit	Highland Park R'y Co	12		11	4,185.00	1	900.00
293	Muskegon	Muskegon R'y Co			17			
294	Port Huron	Gratiot Electric R'y Co	12		13	7,656.01	1	900.00
297	Sault Ste. Marie	Sault Ste. Marie Street R'y Co	12		13	2,955.00	1	105.00
MINNESOTA.								
304	Saint Paul	Saint Paul City R'y Co	11	10	34	8,537.74		
305	Stillwater	Stillwater Street R'y Co	12		13	8,300.00	1	1,200.00
MISSOURI.								
318	Kansas city	Metropolitan Street R'y Co	9	23	31	14,079.98		
319	Kansas city	North East Street R'y Co	9	24	54	27,254.29	11	4,297.12
323	Kansas city	Vine Street Motor R'y Co	11		17	3,900.00		
324	Saint Joseph	People's Street Railway and Electric Light and Power Co	12		56	31,420.00		
325	Saint Joseph	Wyatt Park R'y Co	12		72	28,498.14	7	1,500.00

STREET RAILWAYS.

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TABLE 4.—EMPLOYEES AND WAGES, FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS.

MOTORMEN.		CONDUCTORS.		ENGINEERS AND FIRE-MEN.		MECHANICS AND ELECTRICIANS.		OTHERS EMPLOYED IN POWER STATIONS.		SWITCHMEN, TRACK-MEN, AND OTHERS EMPLOYED ON THE LINE.		UNCLASSIFIED AND MISCELLANEOUS.		No.
No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	
9		9		4		3		2		7				71
7	\$420.00	7	\$420.00	2	\$255.00	2	\$247.50	1	\$75.00	3	\$247.50			79
3	969.00	2	646.00	12	4,894.50	6	6,633.34	12		10	4,403.00	150	\$33,453.72	83
				2	807.50					4	1,140.00			84
4	2,923.81	4	2,510.37	3	2,089.14	2	1,277.50			2	1,080.00	3	632.40	87
2	1,100.00	2	1,200.00											90
7	3,120.00	7	3,120.00			1	550.00			4	1,079.00			104
10	6,442.35	10	6,442.35	4	3,795.40	5	3,016.25	4	2,595.60	3	1,302.15			109
												29	4,307.90	110
4	2,200.00	4	1,800.00			1	600.00	2	600.00					121
15	6,823.60	16	7,037.40	4	3,340.75	2	1,380.50	2	730.45	10	4,091.52			123
24		24		5		7		2		12				126
10	5,500.00	3	1,650.00	4	2,745.00	1	730.00			1	550.00			150
6		6		3		1		1		2			18,000.00	151
3	1,620.00					1	720.00			1	600.00			156
4		4		3		2				4				157
33	18,018.00	33	18,018.00	4	3,640.00	6	5,570.00	1	480.00	6	3,120.00			158
7	3,640.00					1	750.00	1	500.00	1	500.00			166
5	2,080.00			1	624.00	1	520.00			1	254.35			171
8	3,600.00			1	720.00			1	500.00					181
25		25		4		2		4		20	304.20		61,790.00	191
7	4,000.00	1	360.00	3	2,050.00	3	1,200.00	2	1,080.00	1	480.00			193
7		7		5		2		3		3				202
				4	240.00	10	600.00	3	150.00	4	200.00	54	2,754.00	205
36	12,491.25	36	12,771.47	4	3,120.00	8	4,365.00	1	450.00	12	4,884.00			222
2		2		2		1								247
5	1,738.15	5	2,197.21									2	1,763.57	249
4		5		1	754.86			1	726.19	1	512.29	2	1,446.72	250
5		4								4				252
5		3								3	1,921.53		5,745.95	257
5													5,932.76	261
7		7											8,248.68	268
6	3,692.00	6	3,230.34	2	1,342.50	1				1	364.00			270
3	1,138.00	3				2				2			1,138.00	273
3	1,872.00	3	1,872.00			3	2,017.50			4	2,376.76			274
3		3											5,969.89	278
4	2,000.00					1	600.00			2	800.00			283
8		12		3		1		2						284
1				1				1						286
3	1,286.25	3	1,286.25	2	887.50	1	547.50			5	1,869.46			287
2	1,277.50	1	638.75	2	1,368.75									289
5		5				4				3				293
4	2,292.30	4	2,547.00			1	780.00			3	1,136.71			294
5	1,785.00	5	840.00	2	225.00									297
16	2,235.69	15	2,235.69			1	150.00	2	1,004.86		2,911.50			304
7	4,200.00			3	1,800.00	1	600.00			1	500.00			305
12	5,307.97	12	5,311.51			2	1,300.00	3	1,298.05	2	862.45			318
13	6,841.09	13	6,853.82	4	2,566.11	4	2,380.39	5	2,055.23	4	2,260.53			319
6	1,440.00	6	1,440.00	2	390.00	2	390.00			1	240.00			323
20	10,800.00	20	10,800.00									16	9,820.00	324
19		19		4		5		5	90.00	13	3,443.99		23,464.15	325

TABLE 4.—EMPLOYÉS AND WAGES, FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		EMPLOYÉS.		OFFICERS AND OFFICE EMPLOYÉS.	
			Months.	Days.	No.	Total salaries and wages paid.	No.	Total salaries paid.
	NEW JERSEY.							
369	Atlantic city	Camden and Atlantic R. R. Co. (St. R'y Div.)	12		29	\$17,395.66		
	NEW YORK.							
406	Brooklyn	Jamaica and Brooklyn Road Co.	12		34	16,723.21	3	\$2,925.00
425	Ithaca	Ithaca Street R. R.	12		4	2,088.50		
468	Rochester	Rochester Electric R'y Co.	11	28	25	16,002.65		
481	Syracuse	Third Ward R'y Co.	12		19	9,280.00	4	1,200.00
488	Utica	Utica Belt Line Street R. R. Co.	4		122	19,077.80	8	3,325.71
	NORTH CAROLINA.							
489	Asheville	Asheville Street R'y Co.	12		22	12,200.00	2	1,800.00
	OHIO.							
492	Akron	Akron Street R. R. Co.	12		98	66,700.00	5	1,700.00
495	Canton	Canton Street R'y Co. and Lakeside Street R. R. Co.	9	4	37	9,225.00	3	1,250.00
496	Cincinnati	Cincinnati Incline Plane R'y Co.	12		164	53,089.73	4	8,500.00
497	Cincinnati	Cincinnati Street R'y Co.	12		56	39,328.75		
500	Cleveland	Broadway and Newburg Street R. R. Co.	12		110	69,913.60	6	
503	Cleveland	East Cleveland R. R. Co.	12		440	171,083.59	12	
504	Cleveland	Lake View and East Cleveland Street R'y Co.	10	24	4	2,126.86		
508	Dayton	Dayton and Soldiers' Home R. R. Co.	2	24	5	737.88		
519	Lima	Lima Street Railway, Motor and Power Co.	12		12	5,810.00	3	1,650.00
521	Mansfield	Mansfield Electric Street R'y Co.	12		20	9,475.00	5	1,100.00
523	Newark	Newark and Granville Electric Street R'y Co.	6	8	5	1,757.50		
525	Piqua	Piqua Street R'y Co.	5	17	11			
526	Salem	Salem Electric R'y Co.	1	7	6		1	
529	Steubenville	Steubenville Street R'y Co.	12		11	7,180.48	1	
	OREGON.							
536	Portland	Metropolitan R'y Co.	6		28	11,220.18	2	1,110.83
543	Salem	Capital City R'y Co.	1		13	700.00		
	PENNSYLVANIA.							
550	Easton	Pennsylvania Motor Co.	12		13	5,450.00	1	100.00
551	Erie	Erie Electric Motor Co.	12		106	42,496.57	9	4,044.00
552	Harrisburg	East Harrisburg Passenger R'y Co.	12		39	19,501.21	3	3,096.00
566	Philadelphia	Lehigh Avenue R'y Co.	2		22	2,314.08	1	150.00
582	Pittsburg	Federal Street and Pleasant Valley Passenger R'y Co.	6		306	67,194.35	12	6,362.00
591	Pittsburg	Pittsburg, Knoxville and St. Clair Street R'y Co.	12		20	14,873.75	2	730.00
595	Pittsburg	Second Avenue Passenger R'y Co.	3	26	51	35,786.75	3	2,400.00
597	Pittsburg	Suburban Rapid Transit Street R'y Co.	12		5		1	
599	Reading	East Reading R. R. Co.	12		14		1	
602	Scranton	People's Street R'y Co.	12		81		9	
604	Sunbury	Sunbury and Northumberland Street R'y Co.			17		6	
607	Wilkesbarre	Wilkesbarre and Suburban Street R'y Co.	12		15	8,350.00	2	1,150.00
608	Wilkesbarre	Wilkesbarre and West Side R'y Co.	6	22	10	3,171.00		
	RHODE ISLAND.							
611	Newport	Newport Street R'y Co.	12		16	11,484.76		
	SOUTH DAKOTA.							
625	Sioux Falls	South Dakota Rapid Transit R'y Co.			13		2	
	TENNESSEE.							
629	Chattanooga	Chattanooga Electric Street R. R. Co.	12		49	24,275.00	5	6,500.00
641	Nashville	United Electric R'y.	12		219	116,772.00	9	10,080.00
	TEXAS.							
646	Fort Worth	Fort Worth Land and Street R'y Co.	1	17	40		5	
652	Laredo	Laredo Improvement Co. (St. R'y Div.)	12		23	12,370.00	1	1,500.00
657	Sherman	College Park Electric Belt Line	3		17	1,740.00		
	UTAH.							
663	Salt Lake city	Salt Lake City R. R. Co.	9	14	96	22,711.10	3	3,505.00
	VIRGINIA.							
667	Danville	Danville Street Car Co.	12		10	5,709.66	1	1,500.00
	WASHINGTON.							
680	Seattle	Seattle Electric Railway and Power Co.	12		45	30,760.98	5	
681	Spokane	Ross Park Street R'y Co.	7	14	35	14,220.00	5	1,560.00
	WEST VIRGINIA.							
686	Huntington	Huntington Electric Light and Street R'y Co.	12		16	7,675.00	1	600.00
	WISCONSIN.							
691	Appleton	Appleton Electric Street R'y Co.	12		11	5,256.00	1	720.00
692	Eau Claire	Eau Claire Street Railway, Light and Power Co.			17		6	
700	Milwaukee	Milwaukee Electric R'y Co.			64		3	
705	Superior	Douglas County Street R'y Co.	4		16			

STREET RAILWAYS.

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TABLE 4.—EMPLOYEES AND WAGES, FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS—Continued.

MOTORMEN.		CONDUCTORS.		ENGINEERS AND FIREMEN.		MECHANICS AND ELECTRICIANS.		OTHERS EMPLOYED IN POWER STATIONS.		SWITCHMEN, TRACKMEN, AND OTHERS EMPLOYED ON THE LINE.		UNCLASSIFIED AND MISCELLANEOUS.		No.
No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	
10	\$5,425.72	10	\$6,118.37	3	\$1,633.30	5	\$3,621.38			1	\$596.89			369
7	3,559.00	7	3,559.00	3	1,332.00	3	864.00	2	\$1,075.65	9	3,408.56			406
4	2,088.50											25	\$16,002.65	425
8	4,000.00			4	2,580.00	1	600.00			2	900.00			468
40	5,387.45	37	4,723.44			35	5,307.90			2	333.30			481
														488
8	4,000.00	8	4,000.00	4	2,400.00									489
42	30,000.00	37	27,000.00	4	2,600.00	5	2,900.00			5	2,500.00			492
14	3,000.00	6	1,260.00	4	1,100.00	6	1,700.00			4	915.00			495
25	11,335.18	25	10,884.98	6	5,626.14	4	2,880.00			100	13,863.43			496
21	13,413.75	21	15,330.00	4	3,285.00	4	2,920.00	2	1,095.00	4	3,285.00			497
30		30		4		13		2		25			69,913.60	500
119		153		7		89		60					171,083.59	503
												4	2,126.86	504
2	271.56			2	329.17	1	137.15							508
7	3,640.00	11	520.00											519
10	5,475.00			4	2,200.00			1	700.00					521
1	285.00	1	285.00	2	712.50	1	475.00							523
9						2								525
4						1								526
7						3							7,180.48	529
11	2,614.08	7	2,614.09	4	1,911.18	1	540.00	3	1,080.00	2	900.00	1	450.00	536
												13	700.00	543
6	2,800.00			2	1,050.00	4	1,500.00							550
30	11,031.28	30	11,031.29	4	2,520.00	5	3,650.00					28	10,220.00	551
15	6,056.41	15	6,056.40	2	1,333.15	3	1,844.93			1	1,114.32			552
4	459.75	4	459.76	5	683.57	6	349.00			2	212.00			566
75	12,468.50	75	12,468.50	12	3,952.45	14	3,904.00	24	4,772.00	74	16,296.45	20	6,970.45	582
6	4,380.00	6	4,380.00	2	1,825.00	3	2,828.75			1	730.00			591
16	11,680.00	16	11,680.00	4	2,420.00	2	1,825.00			10	5,781.75			595
4														597
5		5				1				2				599
25		25		4		6		4		8				602
3		2		4				2						604
11	2,160.00	4	2,160.00	3	1,860.00	1	540.00			1	480.00			607
3	945.00	3	945.00	3	1,071.00			1	210.00					608
7	5,110.00	6	4,458.26			3	1,916.50							611
4				3		1				8				625
15	6,000.00	15	6,000.00	4	2,600.00	7	3,000.00			3	175.00			629
75	35,880.00	75	35,880.00	12	7,200.00	20	15,240.00	20	9,302.00	8	3,130.00			641
15		14		4				2						646
8	3,610.00	8	3,610.00	2	2,007.50	1	912.50	1	146.00	2	584.00			652
5	600.00	5	225.00	2	315.00	1	300.00			4	300.00			657
42	7,869.97	42	7,869.98	11	1,966.15	3	1,500.00							663
5	2,076.00			2	1,009.16	1	519.00			1	605.56			667
12		12		4		4		3		5			30,760.98	680
7	2,812.00	7	2,813.00	2	1,275.00	2	2,016.00	2	1,275.00	10	2,469.00			681
3	1,080.00	3	1,350.00	4	1,745.00	3	2,180.00			2	720.00			686
						1	486.00	1	243.00	1	405.00			691

STATISTICS OF TRANSPORTATION.

TABLE 4.—EMPLOYÉS AND WAGES, FOR THE CENSUS YEAR—Continued.

CABLE RAILWAYS.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		ALL EMPLOYÉES.		OFFICERS AND OFFICE EMPLOYÉES.	
			Months.	Days.	No.	Total salaries and wages paid.	No.	Total salaries paid.
CALIFORNIA.								
31	Los Angeles	Pacific R'y Co	12	.....	224	\$192,920.23	9	\$11,233.33
33	Los Angeles	Second Street Cable R. R. Co	3	11	25	5,761.25	3	1,229.65
34	Los Angeles	Temple Street Cable R'y Co	12	.....	34	31,735.00	2	3,900.00
38	Oakland	Oakland R. R. Co	12	.....	48	35,661.17	3	2,040.00
58	San Francisco	California Street Cable R. R. Co	12	.....	78	62,473.25	5	7,590.00
61	San Francisco	Ferris and Cliff House R'y Co	12	.....	225	180,709.85	14	15,894.60
62	San Francisco	Geary Street Park and Ocean R. R. Co	12	.....	68	67,276.66	5	6,105.00
63	San Francisco	Market Street Cable R'y Co	12	.....	597	498,885.90	26	30,507.74
65	San Francisco	Omnibus Cable Co	12	.....	596	484,514.00	22	26,000.00
67	San Francisco	Presidio and Ferris R. R. Co	12	.....	78	59,760.00	11	5,760.00
68	San Francisco	Sutter Street R'y Co	12	.....	202	194,424.80	7	12,216.00
COLORADO.								
81	Denver	Denver City Cable R'y Co	12	.....	270	113,821.31	9	10,597.02
83	Denver	Denver Tramway Co	12	.....	191	151,333.22	9	14,354.20
DIST. OF COLUMBIA.								
112	Washington	Washington and Georgetown R. R. Co	8	.....	108	11,587.59	3	299.00
IOWA.								
197	Dubuque	Eleventh Street Elevated R. R.	12	.....	2	1,020.00	.....	.....
MICHIGAN.								
291	Grand Rapids	Valley City Street and Cable R'y Co	12	.....	.....	22,656.99	.....	2,523.75
MINNESOTA.								
304	Saint Paul	Saint Paul City R'y Co	12	.....	192	122,612.37	29	21,232.08
MISSOURI.								
315	Kansas city	Grand Avenue R'y Co	12	.....	222	142,827.81	7	15,210.28
317	Kansas city	Kansas City Cable R'y Co	12	.....	394	229,505.99	13	25,979.84
318	Kansas city	Metropolitan Street R'y Co	12	.....	377	275,020.55	19	21,759.24
321	Kansas city	People's Cable R'y Co	8	.....	80	31,121.20	.....	.....
334	Saint Louis	Missouri R. R. Co	12	.....	175	128,163.00	9	15,680.40
338	Saint Louis	Saint Louis and Suburban R'y	12	.....	143	88,401.52	6	4,234.52
MONTANA.								
346	Butte city	Butte City Street R'y Co	12	.....	18	20,440.00	.....	.....
NEW YORK.								
453	New York	New York and Brooklyn Bridge	12	.....	335	329,600.00	.....	.....
OHIO.								
497	Cincinnati	Cincinnati Street R'y Co	12	.....	114	68,992.50	.....	.....
498	Cincinnati	Mount Adams and Eden Park Inclined R'y	12	.....	100	60,390.00	.....	.....
499	Cincinnati	Mount Auburn Cable R'y Co	12	.....	84	55,000.00	3	6,030.00
OREGON.								
540	Portland	Portland Cable R'y Co	12	.....	54	58,092.00	4	.....
PENNSYLVANIA.								
544	Allegheny	Troy Hill Inclined Plane and Bridge Co	12	.....	6	.....	1	.....
578	Philadelphia	West Philadelphia Passenger R'y Co	12	.....	2	1,000.00	2	1,000.00
580	Pittsburg	Citizens' Traction Co	12	.....	213	130,067.99	6	.....
581	Pittsburg	Duquesne Inclined Plane Co	12	.....	9	5,940.00	3	1,500.00
583	Pittsburg	Fort Pitt Inclined Plane R'y Co	12	.....	7	4,290.00	1	200.00
584	Pittsburg	Monongahela Inclined Plane Co	12	.....	13	10,230.00	2	1,450.00
585	Pittsburg	Mount Oliver Incline R'y Co	12	.....	11	7,851.55	4	1,700.00
586	Pittsburg	Penn Inclined Plane Co	12	.....	10	7,020.00	1	1,000.00
592	Pittsburg	Pittsburg Traction Co	12	.....	160	119,908.73	7	16,783.25
594	Pittsburg	Saint Clair Inclined Plane Co	12	.....	9	5,400.65	1	504.65
RHODE ISLAND.								
613	Providence	Providence Cable Tramway Co	6	.....	36	13,429.60	4	1,920.00
WASHINGTON.								
677	Seattle	Front Street Cable R'y Co	12	.....	37	30,525.00	4	5,525.00
678	Seattle	Lake Washington Cable R. R. Co	10		45	25,461.80	4	2,513.75
679	Seattle	Madison Street Cable R'y Co	2	25	57	11,050.00	4	

STREET RAILWAYS.

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TABLE 4.—EMPLOYÉS AND WAGES, FOR THE CENSUS YEAR—Continued.

CABLE RAILWAYS.

GRIPMEN.		CONDUCTORS.		ENGINEERS AND FIRE-MEN.		MECHANICS.		OTHERS EMPLOYED IN POWER STATIONS.		SWITCHMEN, TRACKMEN, AND OTHERS EMPLOYED ON THE LINE.		UNCLASSIFIED AND MISCELLANEOUS		No.
No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.
56	\$40,040.00	60	\$40,040.00	13	\$12,688.00	7	\$6,396.00	21	\$15,496.00	28	\$19,448.00	30	\$47,578.90	31
5	1,096.50	5	970.20	2	613.45	3	836.50	4	758.35	3	256.60			33
12	10,800.00	12	9,300.00	2	2,160.00	3	3,385.00			3	2,190.00			34
15	10,400.00	15	10,720.00	4	4,080.00	4	3,720.00	2	1,620.00	5	3,081.17			38
25	18,547.75	29	21,515.50	5	4,980.00	6	5,280.00	3	2,100.00	5	2,460.00			58
62	53,942.55	62	54,000.55	6	5,117.97	23	18,088.64	5	6,109.44	50	27,556.10			61
33	20,108.35	35	20,756.35	4	3,960.00	5	4,861.80	1	660.00	15	10,825.16			62
198	120,522.98	207	125,526.62	14	13,920.00	40	38,739.65	26	18,979.00	80	60,689.91			63
172	141,750.00	175	146,760.00	13	17,784.00	43	41,280.00	142	90,170.00	29	20,770.00			65
20	16,200.00	24	19,440.00	4	3,240.00	8	7,200.00	5	3,600.00	6	4,320.00			67
70	70,150.30	70	74,012.40	5	5,446.50			1	1,000.00	49	31,599.60			68
75	32,271.70	79	35,138.62	16	7,907.54	32	10,109.99	13	3,333.22	46	14,463.22			81
				7	8,935.89					25	19,346.70	150	108,696.43	83
34		32		4	613.50	4	457.64	20	1,338.06	11	798.91		8,080.48	112
				2	1,020.00									197
	12,348.10				2,489.76		5,295.38							291
40	23,499.20	40	23,499.20	9	7,962.87	40	21,256.90	8	9,964.94	26	15,197.18			304
66	44,800.28	70	45,700.08	10	8,857.35	6	3,934.80	4	2,236.49	59	21,998.53			315
95	51,616.45	100	55,500.25	24	15,353.55	40	24,168.70	30	14,063.70	92	42,823.50			317
100	71,558.54	100	71,859.25	18	14,722.58	39	30,296.39	23	14,085.93	78	50,738.62			318
60	36,273.60	82	45,040.80	8	7,387.20		7,068.00	3	3,842.40	13	12,870.60			321
40		40		9	7,124.75			7	5,640.00	41	21,891.50		49,510.75	338
6	6,570.00	5	6,570.00			2	2,920.00	4	4,380.00					346
												335	329,600.00	453
32	23,360.00	45	23,850.00	4	2,385.00	4	4,015.00	11	6,022.50	18	9,360.00			497
34	21,600.00	39	22,800.00	4	2,500.00	2	2,100.00	3	1,600.00	18	9,700.00			498
30	14,412.90	25	14,412.90	4	3,197.50	2	1,408.50	10	5,704.99	10	9,833.21			499
18		18		4		4		6					58,092.00	540
				2		1				2				544
65		65		5		12				60			130,067.99	578
		2	1,320.00	3	2,400.00	1	720.00							580
		2	1,296.00	4	2,794.00									581
		5	3,620.00	5	4,440.00	1	720.00							584
		2	1,980.00	4	3,528.00	1	643.55							585
		2	1,460.00	4	3,460.00			3	1,100.00					586
34	30,000.00	37	33,716.75	5	5,475.00	12	5,556.34	43	16,180.13	21	12,197.26			592
		2	1,080.00	4	2,880.00					2	936.00			594
9	3,538.92	9	2,471.39	4	1,744.72	3	1,301.40	3	1,139.11	4	1,314.06			613
10	7,800.00	10	7,800.00	4	3,900.00	5	3,000.00	2	1,500.00	2	1,000.00			677
13		13		4		2		3		6	2,658.45		20,289.60	678
20		20		5		4		3		1			11,050.00	679

STATISTICS OF TRANSPORTATION.

TABLE 4.—EMPLOYÉS AND WAGES, FOR THE CENSUS YEAR—Continued.

STEAM PASSENGER RAILWAYS.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		ALL EMPLOYÉS.		OFFICERS AND OFFICE EMPLOYÉS.	
			Months.	Days.	No.	Total salaries and wages paid.	No.	Total salaries paid.
ALABAMA.								
2	Birmingham	Birmingham, Powderly and Bessemer Street R. R. Co.	12		19		5	
3	Birmingham	Birmingham Railway and Electric Co.	6		103			
4	Birmingham	East Birmingham Land and R. R. Co.	12		36	\$22,300.00	4	\$5,600.00
5	Birmingham	Highland Avenue and Belt R. R. Co.	12		25	19,910.69	3	1,200.00
6	Birmingham	North Birmingham Street R. R. Co.	12		21	16,191.91	2	1,500.00
8	Gadsden	Gadsden and Attalla Union R'y Co.	5		8	2,400.00	1	500.00
12	Sheffield	Sheffield Street R'y Co.	12		6		2	
14	Tuscaloosa	Tuscaloosa Belt R'y Co.	12		7	2,725.00	1	300.00
ARKANSAS.								
19	Little Rock	City Electric Street R'y Co.	12		10	6,810.00	1	1,080.00
CALIFORNIA.								
26	Los Angeles	Cahuenga Valley R. R. Co.	2	15	9	574.25		
32	Los Angeles	San Gabriel Valley Rapid Transit R'y.	1		19	1,011.50	3	300.00
46	Pomona	Pomona Street R. R. Co.	12		3	1,580.00	1	120.00
54	San Bernardino	San Bernardino and Redlands R. R. Co.	12		9	7,920.00	1	1,200.00
56	San Bernardino	Southern California Motor Road Co.	1		12	860.00	2	190.00
61	San Francisco	Ferris and Cliff House R'y Co.	12		32	28,006.35	1	1,800.00
62	San Francisco	Geary Street Park and Ocean R. R. Co.	12		8	6,461.00		
63	San Francisco	Market Street Cable R'y Co.	12		20	11,172.40		
67	San Francisco	Presidio and Ferris R. R. Co.	12		5	4,206.00		
COLORADO.								
80	Denver	Denver and Berkeley Park Rapid Transit Co.	12		24	19,600.00	4	2,400.00
FLORIDA.								
119	Tampa	Tampa Street R'y Co.	12		12	8,095.00	3	2,300.00
GEORGIA.								
128	Columbus	Columbus R. R. Co.	12		23	12,670.00	5	3,550.00
130	Lithia Springs	Salt Springs and Bowden Lithia R. R.	4		2	550.00		
131	Milledgeville	Milledgeville and Asylum Dummy R. R. Co.	12		17	5,850.00	5	1,800.00
133	Rome	Rome Street R'y Co.	12		15		1	
134	Savannah	City and Suburban R'y Co.	12		13	8,150.00	1	1,500.00
ILLINOIS.								
137	Alton	Alton Improvement Association	12		5	2,940.00		
INDIANA.								
168	Evansville	Evansville Suburban and Newburg R'y Co.	12		16		4	
179	Muncie	Muncie Street R'y Co.	8		12	6,410.00	3	1,800.00
IOWA.								
188	Cedar Rapids	Cedar Rapids and Marion R'y	12		24	13,294.00	3	2,320.00
190	Council Bluffs	Lake Manawa R'y Co.	12		8			
194	Des Moines	Des Moines Belt Line R'y Co.	12		5	1,760.00		
204	Sioux city	Sioux City and Highland Park R'y Co.	12		15	8,876.00	2	1,250.00
KANSAS.								
215	Leavenworth	Leavenworth Rapid Transit R'y Co.	12		23	16,140.00		
220	Topeka	Topeka Belt R'y Co.	12		6	3,270.00	3	1,500.00
LOUISIANA.								
236	New Orleans	New Orleans, Spanish Fort and Lake R. R. Co.	12		12	6,480.00	1	1,200.00
MASSACHUSETTS.								
276	Onset	Onset Street R'y Co.	12		6	1,076.29	2	250.00
MINNESOTA.								
301	Minneapolis	Minneapolis, Lyndale and Minnetonka R'y Co.	12		107	53,198.55	3	2,820.00
MISSOURI.								
314	Kansas city	East Fifth Street R'y Co.	12		26	16,293.35	2	2,580.20
315	Kansas city	Grand Avenue R'y Co.	10		7	2,984.13		
316	Kansas city	Kansas City and Independence Rapid Transit R'y.	12		53	32,212.63	7	4,770.91
338	Saint Louis	Saint Louis and Suburban R'y	12		82	29,345.80	2	999.54
MONTANA.								
346	Butte city	Butte City Street R'y Co.	12		15	20,530.00	3	5,200.00
347	Helena	Helena, Hot Springs and Smelter R. R. Co.			13		2	
NEW YORK.								
399	Brooklyn	Brooklyn Elevated R. R. Co.	12		972	616,333.46	18	20,983.34
403	Brooklyn	Fulton Elevated R. R. Co.	12		3	1,020.00	3	1,020.00
407	Brooklyn	Kings County Elevated R'y Co.	12		550	360,695.66	33	53,614.38
411	Brooklyn	Sea View R. R. Co.	12		24	5,171.05	1	900.00
449	New York	Manhattan R'y Co.	12		4,673	3,053,509.75	164	170,885.86
459	New York	Suburban Rapid Transit Co.	12		133	95,151.48	10	10,283.34

STREET RAILWAYS.

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TABLE 4.—EMPLOYÉS AND WAGES, FOR THE CENSUS YEAR—Continued.

STEAM PASSENGER RAILWAYS.

ENGINEERS AND FIRE-MEN.		CONDUCTORS.		OTHER TRAINMEN.		MECHANICS.		SWITCHMEN, TRACK-MEN, AND OTHERS EMPLOYED ON THE LINE.		MEN EMPLOYED AT STATIONS.		UNCLASSIFIED AND MISCELLANEOUS.		No.
No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	
6		3				1				4				2
26		15		10		6		41		5				3
8	\$6,000.00	3	\$2,200.00	3	\$300.00	2	\$2,200.00	16	\$6,000.00					4
5	9,115.49	5	2,734.50	12	6,860.70									5
6	4,290.80	3	1,777.05			1	1,200.00	9	7,424.06					6
4		2								1	\$150.00		\$1,750.00	8
2		1		1										12
3	1,625.00	1	500.00					2	300.00					14
4	1,560.00	2	1,230.00			2	1,440.00	1	1,500.00					19
1	245.25	1	178.50					7	150.50					26
4	200.00	1	75.00	1	15.00	2	100.00	6	262.00	2	59.50			32
1	912.50	1	547.50											46
1	1,440.00	1	900.00	1	600.00							5	3,780.00	54
4	270.00	2	150.00			1	100.00	3	150.00					56
10	8,603.62	5	3,461.24	3	1,547.87	3	2,234.87	7	8,208.20	3	2,150.55			61
3	2,518.50	3	2,226.50			2	1,716.00							62
6	3,342.88	2	1,338.11			1	1,103.86	7	3,290.96	4	2,096.59			63
2	1,620.00	2	1,386.00			1	1,200.00							67
5	7,500.00	6	4,200.00			2	1,500.00	7	4,000.00					80
3	2,644.00	2	1,357.00					4	1,794.00					119
4	2,520.00	2	1,440.00	1	360.00	2	1,920.00	9	2,880.00					128
1	450.00	1	100.00											130
4	2,190.00	1	480.00	3	560.00			4	820.00					131
6		1						7						133
2	1,300.00	1	900.00	2	700.00	3	2,700.00	3	900.00	1	150.00			134
2	1,440.00	1	540.00	1	540.00					1	420.00			137
5		2						5						168
6	3,000.00	2	1,250.00							1	360.00			179
2	1,620.00	2	1,200.00	6	3,066.00	2	1,140.00	9	3,948.00					188
3		3						2						190
2	900.00	2	560.00							1	300.00			194
4	2,640.00	2	1,296.00			1	600.00	6	3,090.00					204
6	8,280.00	3	2,160.00	3	1,620.00	3	525.00	4	1,575.00	1	1,980.00			215
1	730.00	1	585.00							1	455.00			220
2	1,200.00	1	600.00	1	480.00	2	1,200.00	5	1,800.00					236
												4	826.29	276
28	15,880.00	22	10,045.00	33	17,055.00			21	7,398.55					301
6	4,775.45	6	3,585.30					5	2,353.45	7	2,998.95			314
3	1,629.13	3	1,240.00							1	115.00			315
17	9,781.15	5	4,220.97			4	4,071.87	15	4,847.23	5	4,520.50			316
12	9,804.10	6		6		29		23	8,923.66	4			9,618.50	338
2	2,920.00	2	2,190.00			4	5,840.00	4	4,380.00					346
6		3								2				347
206	184,020.29	75	55,412.36	133	42,047.70	39	25,507.34	61	42,940.51	274	145,777.68	166	99,644.24	399
														403
40	81,053.45	43	23,812.38	56	26,390.85	42	46,497.82	122	46,342.83	164	82,983.95			407
4	1,678.40	4	1,086.10	5	851.05	2	200.00	7	355.50	1	100.00			411
736	679,372.25	285	217,493.55	750	375,606.24	262	180,437.98	478	320,077.55	977	496,438.80	1,021	613,197.52	449
37	31,742.85	15	10,146.48					71	42,978.81					459

STATISTICS OF TRANSPORTATION.

TABLE 4.—EMPLOYÉS AND WAGES, FOR THE CENSUS YEAR—Continued.

STEAM PASSENGER RAILWAYS—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		ALL EMPLOYÉS.		OFFICERS AND OFFICE EMPLOYÉS.	
			Months.	Days.	No.	Total salaries and wages paid.	No.	Total salaries paid.
	OREGON.							
538	Portland	Mount Tabor Street R. R. Co	12		5	\$4,617.30	1	\$900.00
539	Portland	Portland and Vancouver R'y Co	12		49	35,384.00	2	2,820.00
	PENNSYLVANIA.							
600	Reading	Mount Penn Gravity R. R. Co	12		34	4,269.13	3	2,004.08
	SOUTH DAKOTA.							
626	Watertown	Watertown and Lake Campeska R'y Co	4		2	260.00		
	TENNESSEE.							
635	Knoxville	Fountain Head R. R. Co	12		18	8,280.00	1	600.00
637	Memphis	East End Street R'y Co			28		5	
639	Nashville	Nashville and West Nashville R. R. Co	6		24	5,503.39	3	
640	Nashville	Overland R'y Co	12			10,955.00		1,720.00
	VIRGINIA.							
675	Roanoke	Roanoke Street R'y Co	12		15	9,000.00	4	3 240.00
	WASHINGTON.							
682	Spokane	Spokane and Montrose Motor R. R. Co	12		8	7,150.00		
	WEST VIRGINIA.							
689	Wheeling	Wheeling and Elm Grove R. R	12		16		2	
	WISCONSIN.							
698	Milwaukee	Milwaukee and Whitefish Bay R'y Co	7		11	4,579.19	1	

STREET RAILWAYS.

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TABLE 4.—EMPLOYÉS AND WAGES, FOR THE CENSUS YEAR—Continued.

STEAM PASSENGER RAILWAYS -Continued.

ENGINEERS AND FIRE-MEN.		CONDUCTORS.		OTHER TRAINMEN.		MECHANICS.		SWITCHMEN, TRACK-MEN, AND OTHERS EMPLOYED ON THE LINE.		MEN EMPLOYED AT STATIONS.		UNCLASSIFIED AND MISCELLANEOUS.		No.
No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	
2	\$2,373.30	2	\$1,344.00											538
6	5,760.00	3	2,700.00	3	\$1,620.00	1	\$1,200.00	34	\$21,284.00					539
4	658.53	2	152.94	2	305.87	2	205.84	18	726.44	3	\$215.43			600
1	100.00	1	160.00											626
4	2,760.00	2	960.00							1	360.00	10	\$3,600.00	635
6		4				2		10		1				637
8		3				4		6					5,503.39	639
	5,100.00		2,075.00				2,060.00							640
5	2,880.00	3	1,569.00	2	720.00	1	600.00							675
4	3,650.00	2	1,500.00						2,000.00					682
4		4		4		2								689
2		2						5		1			4,579.19	698

STATISTICS OF TRANSPORTATION.

TABLE 4.—EMPLOYEES AND WAGES, FOR THE CENSUS YEAR—Continued.

RAILWAYS USING MORE THAN ONE KIND OF MOTIVE POWER, THE STATISTICS FOR THE SEVERAL KINDS NOT BEING SEPARABLE.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		ALL EMPLOYÉS.		OFFICERS AND OFFICE EMPLOYÉS.	
			Months.	Days.	No.	Total salaries and wages paid.	No.	Total salaries paid.
	ALABAMA.							
10	Montgomery.....	Montgomery Terminal and Street R'y Co.....	12		26	\$8,960.00	3	\$1,500.00
11	Selma.....	Selma Street R. R. Co.....	12		7	2,560.00		
	ARKANSAS.							
21	Searcy.....	Searcy and West Point R. R. Co.....			13		3	
	CALIFORNIA.							
38	Oakland.....	Oakland R. R. Co.....	12		35	26,419.03	3	2,040.00
55	San Bernardino.....	San Bernardino, Arrowhead and Waterman R. R. Co.....	12		7	3,225.00	1	375.00
	GEORGIA.							
124	Atlanta.....	Metropolitan Street R. R. Co.....	12		62	31,617.06	2	2,777.33
	ILLINOIS.							
142	Chicago.....	Chicago City R'y Co.....	12		2,551	1,532,799.84		
145	Chicago.....	North Chicago Street R. R. Co.....	12		1,096	790,231.49	33	33,100.59
147	Chicago.....	West Chicago Street R. R. Co.....	12		2,132	1,468,842.79	49	49,416.00
161	Rock Island.....	Rock Island and Milan Street R'y Co.....	12		14	5,500.00		
	INDIANA.							
182	South Bend.....	South Bend and Mishawaka R'y.....	12		16		1	
	IOWA.							
195	Des Moines.....	Des Moines Street R. R. Co.....	12		95	41,826.87	6	5,355.00
	KANSAS.							
212	Kansas city.....	Interstate Consolidated Rapid Transit R'y Co.....	12		180	109,687.23	5	7,912.88
	LOUISIANA.							
235	New Orleans.....	New Orleans City and Lake R. R. Co.....	12		342	212,926.95	8	20,919.60
	MASSACHUSETTS.							
253	Boston.....	Lynn and Boston R. R. Co.....	12		283	243,541.53	8	15,070.28
259	Boston.....	West End Street R'y Co.....	12		3,780	2,783,947.57	104	
279	Springfield.....	Springfield Street R'y Co.....	12		156	93,081.00	7	9,000.00
	MICHIGAN.							
290	Grand Rapids.....	Street R'y Co. of Grand Rapids.....	12		184	76,340.86	12	8,240.00
296	Saginaw.....	Saginaw Union Street R'y.....	6		68	33,490.00	3	3,380.00
	MISSOURI.							
329	Saint Louis.....	Citizens' R'y Co.....	12		316	170,000.00	8	9,000.00
333	Saint Louis.....	Lindell R'y Co.....	12		301	131,009.05	6	7,461.45
	NEBRASKA.							
355	Lincoln.....	Capital Heights Street R'y Co.....	12		9	4,680.00		
361	Omaha.....	Omaha Street R'y Co.....	12		469	260,022.62	12	
	NEW JERSEY.							
373	Jersey city.....	North Hudson County R'y Co.....	12		424	281,748.00	7	17,200.00
	NEW YORK.							
384	Albany.....	Albany R'y.....	12		175	45,774.62		
386	Albany.....	Watervliet Turnpike and R. R. Co.....	12		73		5	
391	Binghamton.....	Binghamton Street R. R. Co.....	3	8	32	3,509.35	3	411.16
415	Buffalo.....	Buffalo Street R. R. Co.....	12		470	228,113.61	10	11,187.46
419	Elmira.....	Elmira and Horseheads R'y Co.....	12		10	5,904.32	4	3,204.16
460	New York.....	Third Avenue R. R. Co.....	12		979	581,382.34	9	25,350.00
486	Troy.....	Troy and Lansingburg R. R. Co.....	12		306	188,170.34	12	13,762.50
	OHIO.							
501	Cleveland.....	Brooklyn Street R. R. Co. and South Side Street R. R. Co.....	12		385	193,854.39	13	22,142.77
	PENNSYLVANIA.							
564	Philadelphia.....	Frankford and Southwark Passenger R. R. Co.....	12		401	250,091.74	9	15,973.59
572	Philadelphia.....	Philadelphia Traction Co.....	12		1,347	890,802.65	50	68,318.00
579	Pittsburg.....	Central Traction Co.....	12		87	51,801.25	3	3,060.00
580	Pittsburg.....	Citizens' Traction Co.....	12		213	130,067.99	6	
	WEST VIRGINIA.							
690	Wheeling.....	Wheeling R'y Co.....	12		93	38,343.73	2	2,600.00

STREET RAILWAYS.

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TABLE 4.—EMPLOYÉS AND WAGES, FOR THE CENSUS YEAR—Continued.

RAILWAYS USING MORE THAN ONE KIND OF MOTIVE POWER, THE STATISTICS FOR THE SEVERAL KINDS NOT BEING SEPARABLE.

DRIVERS, GRIPMEN, MOTORMEN, ENGINEERS, AND FIREMEN.		CONDUCTORS.		OTHER TRAINMEN.		MECHANICS.		MEN EMPLOYED AT STATIONS, POWER HOUSES, BARN, AND SHOPS.		SWITCHMEN, TRACK- MEN, AND OTHERS EMPLOYED ON THE LINE.		UNCLASSIFIED AND MISCELLANEOUS.		No.
No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	No.	Total wages paid.	
15 2	\$4,100.00 225.00	1	\$300.00					8 2	\$3,360.00 235.00			2	\$1,800.00	10 11
2		2						1		5				21
13 2	9,600.00 1,200.00	1	375.00	1	\$375.00			9	6,720.00	6 2	\$4,259.03 900.00	4	3,800.00	38 55
18	11,742.79	8	5,161.90			4	\$4,494.48	10	2,698.89	14	2,836.72	5	1,904.95	124
583 268	505,020.78	660 305	506,130.33			22 120	109,500.00	48 32 583	22,192.00 22,192.00 363,578.65	412 338 250	215,897.50 84,452.94	820 1,250 14	521,648.73 409,541.40 971,395.20 5,500.00	142 145 147 161
7		2				1		1		4				182
36	17,215.37	32	11,903.09									21	7,353.41	195
36	29,032.40	35	20,710.57	16	6,341.60	27	16,020.00	2	1,080.00	59	28,589.78			212
158	94,800.00							162	89,640.00	14	7,567.35			235
109 1,131 48	71,894.14 802,249.49 30,201.00	109 982 35	71,894.14 717,179.75 13,192.00					57 870 43	84,682.97 496,116.11 24,416.00	693 23	16,272.00		768,402.22	253 259 279
60 30	28,176.62 14,400.00	60 20	14,171.79 9,600.00					47	22,752.45	8	3,000.00	15	6,110.00	290 296
100 71	49,000.00 31,797.10	110 70	55,000.00 30,844.40			25	10,000.00			60	33,000.00	13 154	14,000.00 60,906.10	320 333
5 161	2,600.00	115				49		3 44	1,456.00	1 88	624.00		260,022.62	355 361
										34	23,556.00	383	240,992.00	373
												175	45,774.62	384
34 13 115	1,386.47	30 9 115	827.47			4 3	477.75			2 65	270.00	2	136.50 210,926.15	386 391 415
4 245 55	2,005.00 38,744.08	1 245 55	520.00 38,744.08					1 385 27	175.16 189,689.12	95		157	366,343.22 96,919.68	419 460 486
102	47,939.50	80	38,879.85			70	26,986.89			120	57,905.38			501
116		107						119 15 4	63,402.46 8,190.00 2,555.00	50	19,303.80	1,112	151,411.89 741,419.71	564 572 579
31 70	19,332.50	27 65	12,710.00			170 5 12	72,874.94 3,193.75			17 60	10,950.00		130,067.99	580
40		40				5	3,565.50			6	2,710.86		29,467.37	690

STATISTICS OF TRANSPORTATION.

TABLE 5.—PASSENGER TRAFFIC, FOR THE CENSUS YEAR.

RAILWAYS OPERATED BY ANIMAL POWER.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		Length of line operated. (Miles.)	Car mileage.	NUMBER OF PASSENGERS CARRIED.		RECEIPTS FROM PASSENGERS.		
			Months.	Days.			Total.	Per mile of line operated.	Total.	Average per passenger. (Cents.)	Per car mile. (Cents.)
ALABAMA.											
3	Birmingham...	Birmingham Railway and Electric Co	6	.....	12.50	429,240	865,677	69,254	\$43,283.85	5.00	10.08
7	Decatur	Decatur Street R'y Co	2	.....	4.00	17,381	43,200	10,800	2,160.00	5.00	12.43
9	Mobile	Mobile Street R'y Co	12	.....	20.25	680,360	2,367,148	116,896	78,904.99	3.33	11.60
13	Tuscaloosa	Tuscaloosa and Castle Hill Real Estate and Manufacturing Co. (a)	12	.....	4.00	109,500	188,889	47,222	8,500.00	4.50	7.76
ARKANSAS.											
15	Fort Smith	Fort Smith Street R'y Co	12	.....	8.44	408,800	342,135	40,537	17,106.75	5.00	4.18
16	Helena	Citizens' Street R'y Co	12	.....	2.00	.....	100,000	50,000	.....	.....	.....
17	Hot Springs	Hot Springs Street R. R. Co	12	.....	7.90	270,000	640,000	81,013	29,504.60	4.61	10.93
18	Little Rock	Capital Street R'y Co	12	.....	12.25	821,250	1,639,760	133,858	81,988.45	5.00	9.98
20	Pine Bluff	Citizens' Street R'y Co	12	.....	6.28	273,750	374,480	59,631	14,278.40	3.81	5.22
22	Texarkana	Texarkana Street R'y Co	12	.....	4.00	110,000	250,000	62,500	12,000.00	4.80	10.91
CALIFORNIA.											
23	Anaheim	Anaheim Street Car Co	12	.....	1.75	.....	15,163	8,665	758.15	5.00	.....
24	Fresno	Fresno R. R. Co	12	.....	1.50	.....	32,000	21,333	3,200.00	10.00	.....
25	Fresno	Fresno Street R. R. Co	12	.....	1.50	.....	30,000	20,000	.....	.....	.....
27	Los Angeles	Elysian Park Street R'y Co	6	.....	3.50	.....	9,000	2,571	450.00	5.00	.....
29	Los Angeles	Main Street and Agricultural Park R. R. Co.	12	.....	6.48	737,837	1,793,806	276,822	86,677.90	4.83	11.75
30	Los Angeles	Mateo and Santa Fe Avenue R'y Co	12	.....	3.00	21,900	25,550	8,517	.....	.....	.....
31	Los Angeles	Pacific R'y Co	12	.....	11.37	476,000	1,859,334	163,530	87,388.71	4.70	18.36
35	Marysville	Marysville and Yuba City Street R. R. Co.	10	.....	2.11	18,200	97,855	46,377	4,892.79	5.00	26.88
36	Oakland	Alameda, Oakland and Piedmont R. R. Co.	12	.....	4.00	58,400	344,030	86,008	17,201.50	5.00	29.45
37	Oakland	Oakland, Brooklyn and Fruitvale R. R. Co.	12	.....	1.88	40,000	214,060	113,862	10,703.00	5.00	26.76
38	Oakland	Oakland R. R. Co	12	.....	4.00	416,975	772,023	193,006	40,002.35	5.18	9.59
39	Ontario	Ontario and San Antonio Heights R. R. Co.	12	.....	6.25	22,645	35,000	5,600	2,000.00	5.71	8.83
40	Pasadena	Alhambra and Pasadena Street R'y Co.	12	.....	4.50	21,900	9,515	2,114	951.55	10.00	4.34
41	Pasadena	City R'y Co	12	.....	5.25	56,400	90,673	17,271	4,533.65	5.00	8.04
43	Pasadena	Pasadena Street R. R. Co	12	.....	3.50	25,550	40,574	11,593	2,028.69	5.00	7.94
44	Pasadena	West Pasadena R'y Co	12	.....	3.25	3,830	9,000	2,769	450.00	5.00	11.75
45	Pomona	Orange Grove Street R. R. Co	12	.....	3.75	11,160	9,600	2,560	480.00	5.00	4.30
47	Pomona	San Antonio and Holt Avenue R. R. Co.	12	.....	2.04	13,627	9,000	4,412	450.00	5.00	3.30
48	Redlands	Redlands Street R'y Co	12	.....	3.13	18,980	23,520	7,514	1,176.00	5.00	6.20
49	Riverside	Hall's Addition Street R'y Co	12	.....	1.35	11,826	13,663	10,121	623.21	4.56	5.27
50	Riverside	Riverside and Arlington R'y Co	12	.....	7.22	43,800	88,399	12,244	7,366.67	8.33	16.82
51	Riverside	Riverside R'y Co	12	.....	3.00	11,680	30,000	10,000	1,500.00	5.00	12.84
52	Sacramento	Sacramento City R'y Co	12	.....	6.50	350,300	1,005,290	154,660	50,264.50	5.00	14.35
53	San Bernardino	City Street R. R. Co	12	.....	2.25	.....	125,333	55,704	5,766.65	4.60	.....
57	San Diego	San Diego Street Car Co	12	.....	8.50	283,376	1,537,245	180,852	55,000.00	3.58	19.41
59	San Francisco	Central R. R. Co	12	.....	6.18	608,010	1,734,242	280,622	86,712.10	5.00	14.26
60	San Francisco	City R. R. Co	12	.....	5.12	1,169,416	2,613,976	510,542	130,698.80	5.00	11.18
63	San Francisco	Market Street Cable R'y Co	12	.....	2.83	172,220	950,496	335,864	47,524.80	5.00	27.60
64	San Francisco	North Beach and Mission R. R. Co	12	.....	8.00	995,000	4,900,000	612,500	245,000.00	5.00	24.62
66	San Francisco	Potrero and Bay View R. R. Co	12	.....	1.57	126,276	838,086	533,813	41,904.30	5.00	33.18
69	San Jose	First Street and Willow Street R. R.	12	.....	3.75	158,775	425,000	113,333	20,000.00	4.71	12.60
70	San Jose	North Side Horse R. R. Co	12	.....	2.25	73,913	100,000	44,444	5,000.00	5.00	6.76
72	San Luis Obispo	San Luis Street R'y Co	3	.....	1.50	8,213	11,875	7,917	541.80	4.56	6.60
73	Santa Ana	Santa Ana, Orange and Tustin Street R'y Co.	12	.....	8.00	32,850	49,074	6,134	3,370.75	6.87	10.26
74	Santa Barbara	Santa Barbara and Citizens' Street R'y Co.	12	.....	6.00	.....	255,000	42,500	.....	.....	.....
75	Santa Cruz	Pacific Avenue R. R. Co	12	.....	2.08	75,190	207,228	99,629	10,361.40	5.00	13.78
76	Santa Rosa	South Side Street R'y Co	12	.....	1.67	21,900	27,000	16,168	1,351.35	5.01	6.17
77	Stockton	Stockton Street R. R. Co	12	.....	4.40	572,320	360,000	81,818	18,000.00	5.00	3.15
78	Woodland	Woodland Street R. R. Co	12	.....	1.00	13,505	17,000	17,000	833.30	4.90	6.17
COLORADO.											
82	Denver	Denver City R'y Co	12	.....	29.25	2,305,146	5,824,514	199,129	289,077.03	4.96	12.54
85	Pueblo	Pueblo City R'y Co	12	.....	12.00	438,000	1,121,881	93,490	44,049.30	3.93	10.06
86	Trinidad	Trinidad Street R'y Co	12	.....	2.50	43,800	75,000	30,000	3,750.00	5.00	8.56
CONNECTICUT.											
88	Bridgeport	Bridgeport Horse R. R. Co	12	.....	6.50	632,340	1,723,420	265,142	86,171.27	5.00	13.63
89	Danbury	Danbury and Bethel Horse R'y Co	12	.....	4.17	121,180	754,983	181,061	37,749.15	5.00	31.15
90	Hartford	Hartford and Wethersfield Horse R'y Co	12	.....	15.00	700,309	3,368,312	224,554	161,387.68	4.79	23.05
91	Middletown	Middletown Horse R. R. Co	12	.....	3.75	.....	280,000	69,333	12,700.00	4.88	.....
92	New Britain	New Britain Tramway Co	12	.....	4.50	113,880	329,000	73,111	16,450.00	5.00	14.45
93	New Haven	Fair Haven and Westville R. R. Co	12	.....	7.00	525,803	2,664,747	380,678	133,755.00	5.02	25.44
94	New Haven	New Haven and Centerville Horse R. R. Co	12	.....	2.50	162,240	677,070	270,828	33,853.50	5.00	20.87
95	New Haven	New Haven and West Haven Horse R. R. Co.	12	.....	7.00	500,000	1,200,000	171,429	78,000.00	6.50	15.60
96	New Haven	State Street Horse R. R. Co	12	.....	4.35	178,798	711,805	163,633	33,629.02	4.72	18.81
98	Norwalk	Norwalk Horse R'y Co	12	.....	3.50	255,500	720,205	205,773	36,010.25	5.00	14.09
99	Norwich	Norwich Street R'y Co	12	.....	8.50	201,845	500,577	58,891	34,596.33	6.91	17.14
100	Stamford	Stamford Street R. R. Co	12	.....	3.50	118,344	201,672	57,621	10,083.60	5.00	8.52
101	Waterbury	Waterbury Horse R. R. Co	12	.....	5.75	229,656	902,359	156,932	45,117.99	5.00	19.65
102	Westport	Westport and Saugatuck Horse R. R. Co	12	.....	1.75	19,901	73,432	41,961	4,220.14	5.75	21.21
DELAWARE.											
103	Wilmington	Front and Union Street R'y Co	12	.....	1.33	.....	245,771	184,790	10,800.00	4.39	.....
104	Wilmington	Wilmington City R'y Co	12	.....	4.79	417,560	1,366,203	285,220	74,672.09	5.47	17.88

a Additional statistics not separable from accounts of the general land company.

STREET RAILWAYS.

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TABLE 5.—PASSENGER TRAFFIC, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		Length of line operated. (Miles.)	Car mileage.	NUMBER OF PASSENGERS CARRIED.		RECEIPTS FROM PASSENGERS.		
			Months.	Days.			Total.	Per mile of line operated.	Total.	Average per passenger. (Cents.)	Per car mile. (Cents.)
DIST. COLUMBIA.											
105	Washington	Anacostia and Potomac River R. R. Co.	12		3.00	213,552	429,596	143,199	\$19,742.31	4.60	9.24
107	Washington	Capitol, North O Street and South Washington R'y Co.	12		8.50	1,445,400	2,850,063	335,302	127,869.16	4.49	8.85
108	Washington	Columbia R'y Co.	12		2.80	508,080	1,373,781	490,636	61,534.58	4.48	12.11
111	Washington	Metropolitan R. R. Co.	12		12.92	1,922,637	8,686,993	672,368	385,352.91	4.44	20.04
112	Washington	Washington and Georgetown R. R. Co.	12		7.00	2,168,100	14,688,551	2,098,364	654,233.45	4.45	30.18
FLORIDA.											
113	Fort Meade	Fort Meade Street R'y Co.	12		2.25	4,050	2,700	1,200	335.82	12.44	8.29
114	Jacksonville	Jacksonville Street R. R. Co.	12		8.50	449,680	838,474	98,644	42,023.70	5.01	9.35
115	Jacksonville	Main Street R'y Co.	12		1.40	53,550	132,432	94,594	6,621.60	5.00	12.37
117	Palatka	Palatka and Heights Street R'y Co.	12		2.00	14,600	33,550	16,775	1,677.50	5.00	11.49
118	Pensacola	Pensacola Street Car Co.	12		2.74	120,450	281,393	102,698	14,330.00	5.09	11.90
GEORGIA.											
120	Athens	Athens R'y Co.	6		3.00	37,128	85,735	28,578	4,286.75	5.00	11.55
122	Atlanta	Atlanta Street R. R. Co.	12		26.00	480,000	3,000,000	115,385	150,000.00	5.00	31.25
125	Augusta	Augusta and Summerville R. R. Co.	12		27.00	251,692	872,107	124,587	40,609.13	4.66	16.13
127	Brunswick	Brunswick Street R. R. Co.	12		7.50	270,830	224,866	29,982	10,963.82	4.88	4.05
128	Columbus	Columbus R. R. Co.	12		5.00	284,700	373,601	74,720	18,680.05	5.00	6.56
129	Covington	Covington and Oxford Street R. R. Co.	12		2.50	15,100	55,106	22,042			
132	Rome	North and South Street R. R. Co.	12		1.63	43,800	75,000	46,012	3,750.00	5.00	8.56
134	Savannah	City and Suburban R'y Co.	12		6.00	425,000	1,800,000	300,000	90,000.00	5.00	21.18
135	Savannah	Savannah Street and Rural Resort R. R. Co.	12		7.00	350,400	1,049,600	149,943	52,488.00	5.00	14.98
ILLINOIS.											
136	Alton	Alton and Upper Alton Horse Railway and Carrying Co.	12		2.88	58,400	164,108	56,982	9,728.35	5.93	16.66
138	Aurora	Aurora City R'y Co.	12		5.15	120,450	308,000	59,806	13,860.00	4.50	11.51
139	Belleville	Citizens' Horse R'y Co.	12		4.00	87,600	122,034	30,509	6,101.70	5.00	6.97
140	Bloomington	Bloomington City R'y	12		11.00	102,200	600,000	54,545	40,890.47	6.82	40.01
141	Cairo	Cairo Street R'y Co.	12		3.42	109,500	265,657	77,677	9,270.64	3.49	8.47
146	Chicago	South Chicago City R'y Co.	12		5.50		220,000	40,000			
148	Chillicothe	People's Street R. R. Co.	12		1.50	33,400	40,000	26,667	2,149.78	5.37	6.44
149	Danville	Citizens' Street R'y Co.	12		5.00	172,253	333,064	66,613	16,632.19	4.99	9.66
152	Freeport	Freeport Street R'y Co.	12		3.50		120,000	34,286	5,500.00	4.58	
154	Lasalle	Lasalle and Peru Horse and Dummy R. R. Co.	12		1.46	11,772	19,350	13,253	541.85	2.80	4.60
155	Mechanicsburg	Mechanicsburg and Buffalo R'y Co.	12		3.50	6,573	6,000	1,714	1,500.00	25.00	22.82
159	Peoria	Fort Clark Horse R'y Co.	12		5.00	450,000	733,750	146,750	38,063.10	5.19	8.46
160	Rockford	Rockford City R'y Co.	12		4.50	197,100	500,000	111,111	22,577.00	4.52	11.45
162	Springfield	Citizens' Street R'y Co.	12		9.25	240,900	850,000	91,892	38,024.20	4.47	15.78
163	Springfield	Springfield City R'y Co.	12		7.00	317,550	880,000	125,714	36,756.54	4.18	11.58
164	Urbana	Urbana and Champaign Street R'y Co.	12		2.00	50,000	225,000	112,500	11,234.92	4.99	22.47
INDIANA.											
165	Anderson	Anderson Street R'y Co.	12		4.50	76,650	152,000	33,778	7,000.00	4.61	9.13
167	Evansville	Evansville Street R'y Co.	12		10.50	919,800	1,783,068	169,816	71,322.73	4.00	7.75
169	Fort Wayne	C. L. Centlivre Street R'y Co.	12		1.33	96,360	121,225	91,147	4,849.00	4.00	5.03
170	Fort Wayne	Fort Wayne Street R. R. Co.	12		9.32	688,904	1,445,971	155,147	70,614.20	4.88	10.25
171	Greencastle	Greencastle City Street R. R. Co.	12		2.60	18,250	48,900	18,808	4,350.00	8.90	23.84
172	Indianapolis	Citizens' Street R. R. Co.	12		45.00	3,615,000	9,863,000	219,178	493,150.00	5.00	13.64
173	Jeffersonville	Ohio Falls Street R'y Co.	12		4.50	109,200	196,604	43,690	9,579.40	4.87	8.77
175	Logansport	Logansport R'y Co.	11	26	4.00	120,450	258,513	64,628	10,024.47	3.88	8.32
176	Madison	Madison Street R'y Co.	12		2.50	109,500	154,587	61,835	5,719.97	3.70	5.22
177	Marion	Marion Street R. R. Co.	6		1.00	8,000	29,377	29,377	1,452.94	4.95	18.16
178	Michigan city	Citizens' Street R'y Co.	12		3.25	43,880	130,000	40,000	6,500.00	5.00	14.81
180	New Albany	New Albany R'y Co.	12		7.50	373,125	565,253	75,367	26,713.15	4.73	7.16
183	Terre Haute	Terre Haute Street R'y Co.	12		6.50	399,098	988,771	152,119	47,638.56	4.82	11.94
184	Terre Haute	Vigo County Street R'y Co.	12		4.00	10,000	50,000	12,500	2,500.00	5.00	25.00
185	Vincennes	Vincennes Citizens' Street R'y Co.	12		2.50		175,000	70,000			
IOWA.											
186	Boone	Boone and Boonesboro Street R'y Co.	12		1.85	21,900	90,000	48,649	4,275.00	4.75	19.52
187	Burlington	Burlington Street R. R.	12		2.50	54,750	109,505	43,802	4,987.50	4.55	9.11
188	Cedar Rapids	Cedar Rapids and Marion R'y	7		3.50	45,264	44,661	12,760	2,226.45	4.99	4.92
189	Centerville	People's Street R'y Co.	12		1.75	43,800	100,000	57,143	3,600.00	3.60	8.22
192	Davenport	Davenport and Rock Island R'y Co.	12		27.00		2,200,000	81,481	91,250.00	4.15	
196	Dubuque	Dubuque Street R'y Co.	12		8.00	120,000	370,690	46,336	18,534.50	5.00	15.45
198	Fort Madison	Fort Madison Street R'y Co.	12		3.70		200,000	54,054			
199	Keokuk	Keokuk Street R'y Co.	12		3.50	52,560	216,800	61,943	8,430.00	3.89	16.04
200	Lyons	Clinton and Lyons Horse R'y Co.	12		9.50	219,000	519,480	54,682	24,292.71	4.68	11.09
201	Marshalltown	Marshalltown Passenger R'y Co.	12		2.77	62,370	83,661	30,203	4,036.49	4.82	6.47
203	Red Oaks	Red Oaks Street R'y Co.	12		1.00	3,600	8,000	8,000	800.00	10.00	22.22
206	Waterloo	Waterloo Street R'y Co.	12		2.00	34,000	38,000	19,000	1,590.00	4.18	4.68
KANSAS.											
207	Abilene	Abilene Street R'y Co.	12		3.00	45,000	60,000	20,000			
208	Arkansas city	Arkansas City Street R'y Co.	12		6.00	50,000	82,217	13,703	4,296.42	5.23	8.59
210	Cottonwood Falls.	Consolidated Street R'y Co.	12		1.50	26,280	60,375	40,250	3,018.79	5.00	11.49
211	Hutchinson	Hutchinson Street R'y Co.	12		9.25	219,000	587,650	63,530	23,506.00	4.00	10.72

a 3 miles operated by electric power, for which no report is made.

TABLE 5.—PASSENGER TRAFFIC, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		Length of line operated. (Miles.)	Car mileage.	NUMBER OF PASSENGERS CARRIED.		RECEIPTS FROM PASSENGERS.		
			Months.	Days.			Total.	Per mile of line operated.	Total.	Average per passenger. (Cents.)	Per car mile. (Cents.)
KANSAS—cont'd.											
213	Lawrence.....	Lawrence Transportation Co.....	12	-----	5.00	115,975	296,489	59,298	\$14,684.78	4.95	12.66
214	Leavenworth.....	Leavenworth and Suburban R'y.....	12	-----	4.64	192,172	211,085	45,492	10,554.26	5.00	5.49
216	McPherson.....	McPherson Street R'y Co.....	12	-----	4.50	45,990	87,600	19,467	4,622.90	5.28	10.05
217	Newton.....	Newton City Street R'y Co.....	12	-----	4.50	28,800	32,500	7,222	1,300.00	4.00	4.51
219	Salina.....	Salina R'y Co.....	12	-----	3.00	109,500	150,000	50,000	6,750.00	4.50	6.16
221	Topeka.....	Topeka City R'y Co.....	12	-----	11.00	582,283	1,383,522	125,775	55,326.58	4.00	9.50
223	Wichita.....	Wichita Rapid Transit Co.....	12	-----	4.50	11,319	5,701	1,267	272.87	4.79	2.41
224	Winfield.....	Union Street R'y Co.....	12	-----	4.50	60,000	71,400	15,867	3,570.53	5.00	5.95
KENTUCKY.											
225	Bowling Green.....	Park City R'y.....	12	-----	1.59	37,800	81,860	51,484	3,398.82	4.15	8.99
226	Covington.....	South Covington and Cincinnati Street R'y Co.....	12	-----	18.34	1,022,000	3,534,675	192,730	232,795.95	6.59	22.78
227	Henderson.....	Henderson Street R'y Co.....	12	-----	4.25	129,129	199,890	47,033	9,869.05	4.94	7.64
228	Louisville.....	Louisville R'y Co.....	12	-----	79.92	6,412,183	19,174,825	239,925	853,403.30	4.45	13.31
229	Maysville.....	Maysville Street Railroad and Transfer Co.....	12	-----	3.00	96,360	222,000	74,000	9,600.00	4.32	9.96
LOUISIANA.											
232	New Orleans.....	Canal and Claiborne R. R. Co.....	12	-----	13.00	726,750	1,997,920	153,686	99,896.30	5.00	13.75
233	New Orleans.....	Crescent City R. R. Co.....	12	-----	13.00	1,686,300	4,518,458	347,574	225,922.90	5.00	13.40
234	New Orleans.....	New Orleans and Carrollton R. R. Co.....	12	-----	16.00	1,445,400	4,439,885	277,493	221,993.45	5.00	15.36
237	New Orleans.....	Orleans R. R. Co.....	12	-----	9.50	664,300	1,372,100	144,432	68,605.15	5.00	10.33
238	New Orleans.....	Saint Charles Street R. R. Co.....	12	-----	11.38	850,000	4,370,100	384,016	218,505.00	5.00	25.71
MAINE.											
239	Biddeford.....	Biddeford and Saco R. R. Co.....	12	-----	5.73	99,916	299,506	52,270	20,097.18	6.71	20.11
240	Fryeburg.....	Fryeburg Horse R. R. Co.....	12	-----	3.00	6,500	10,814	3,605	857.09	7.93	13.19
241	Portland.....	Portland R. R. Co.....	12	-----	11.31	432,603	2,728,935	241,285	136,010.53	4.98	31.44
MARYLAND.											
242	Baltimore.....	Baltimore and Powhatan R'y Co.....	12	-----	6.00	42,340	110,000	18,333	10,188.30	9.26	24.06
243	Baltimore.....	Baltimore City Passenger R'y Co.....	12	-----	22.50	3,373,038	18,925,520	841,134	856,497.54	4.53	25.39
244	Baltimore.....	Baltimore Traction Co.....	12	-----	15.00	2,082,688	7,357,037	490,469	340,386.70	4.63	16.34
245	Baltimore.....	Baltimore Union Passenger R'y Co.....	12	-----	28.83	1,560,438	7,144,072	247,800	324,517.76	4.54	20.80
246	Baltimore.....	Highlandtown and Point Breeze R'y Co.....	12	-----	11.00	265,150	1,165,090	105,917	39,451.89	3.39	14.88
248	Baltimore.....	North Baltimore Passenger R'y Co.....	12	-----	10.50	1,351,460	5,358,263	510,311	268,000.00	5.00	19.83
MASSACHUSETTS.											
253	Boston.....	Lynn and Boston R. R. Co.....	12	-----	44.66	1,747,324	10,725,086	240,150	547,306.82	5.10	31.32
256	Boston.....	North Woburn Street R. R. Co.....	12	-----	7.80	94,540	381,948	48,988	19,495.48	5.10	20.62
260	Brookton.....	Brockton Street R'y Co.....	12	-----	12.75	342,513	1,951,197	153,035	89,949.40	4.61	26.26
262	Fall River.....	Globe Street R'y Co.....	12	-----	12.29	499,219	3,143,212	255,754	154,747.62	4.92	31.00
263	Fitchburg.....	Fitchburg Street R'y Co.....	12	-----	6.30	126,338	509,143	80,816	30,961.92	6.08	24.51
264	Gloucester.....	Gloucester Street R'y Co.....	12	-----	5.03	132,322	650,692	129,362	34,436.23	5.29	26.02
265	Haverhill.....	Haverhill and Groveland Street R'y Co.....	12	-----	12.40	166,291	936,170	75,498	56,801.94	6.07	34.16
266	Holyoke.....	Holyoke Street R'y Co.....	12	-----	5.90	125,182	693,419	117,529	33,884.99	4.89	27.07
267	Lawrence.....	Merrimack Valley Horse R. R. Co.....	12	-----	9.81	294,000	1,585,506	161,621	79,250.50	5.00	26.96
268	Lowell.....	Lowell and Dracut Street R'y Co.....	12	-----	5.78	274,199	1,023,403	177,059	47,708.10	4.66	17.40
269	Lowell.....	Lowell Horse R. R. Co.....	12	-----	12.17	536,213	2,287,084	187,928	114,354.20	5.00	21.33
271	Natick.....	Natick and Cochituate Street R'y Co.....	12	-----	3.00	41,256	236,847	78,949	14,149.91	5.97	34.30
272	New Bedford.....	Union Street R'y Co.....	12	-----	13.34	538,829	3,235,116	242,512	143,000.44	4.42	26.54
273	Newburyport.....	Newburyport and Amesbury Horse R. R. Co.....	12	-----	10.93	166,763	1,217,121	111,356	57,661.01	4.74	34.58
275	Northampton.....	Northampton Street R'y Co.....	12	-----	3.20	57,956	262,746	82,108	19,479.32	7.41	33.61
277	Pittsfield.....	Pittsfield Street R'y Co.....	12	-----	3.33	35,850	280,664	84,283	14,246.87	5.08	39.74
280	Taunton.....	Taunton Street R'y Co.....	12	-----	7.50	175,434	767,292	102,306	37,560.31	4.90	21.41
281	Wareham.....	East Wareham, Onset Bay and Point Independence Street R'y Co.....	12	-----	1.67	5,441	27,394	16,404	2,348.92	8.57	43.17
282	Worcester.....	Worcester Consolidated Street R'y Co.....	12	-----	12.50	706,905	4,851,574	388,126	232,474.66	4.79	32.89
MICHIGAN.											
285	Detroit.....	Detroit City R'y.....	12	-----	32.50	3,578,072	18,766,417	577,428	709,000.00	3.78	19.82
288	Detroit.....	Fort Wayne and Elmwood R'y Co.....	12	-----	14.00	947,470	3,732,685	266,620	166,076.80	4.45	17.53
291	Grand Rapids.....	Valley City Street and Cable R'y Co.....	12	-----	7.30	233,600	321,763	44,077	11,020.50	3.43	4.72
292	Jackson.....	Jackson City R'y Co.....	12	-----	5.00	351,350	374,000	74,800	18,700.00	5.00	5.32
295	Saginaw.....	City of Saginaw Street R. R. Co.....	12	-----	3.00	417,195	1,134,608	378,203	32,357.13	2.85	7.76
MINNESOTA.											
298	Anoka.....	Anoka Street R'y Co.....	12	-----	2.75	10,950	76,650	27,873	7,665.00	10.00	70.00
299	Duluth.....	Duluth Street R'y Co.....	12	-----	3.50	374,400	1,279,950	365,700	59,757.39	4.67	15.96
300	Mankato.....	Mankato Street R'y Co.....	12	-----	3.33	112,080	89,475	26,869	4,280.65	4.78	3.82
302	Minneapolis.....	Minneapolis Street R'y Co.....	12	-----	40.00	2,891,905	11,725,681	293,142	586,284.05	5.00	20.27
303	Saint Cloud.....	Saint Cloud City Street Car Co.....	12	-----	1.50	.....	47,000	31,333	2,350.00	5.00	-----
304	Saint Paul.....	Saint Paul City R'y Co.....	12	-----	14.67	1,557,504	4,904,939	334,352	245,246.93	5.00	15.75
306	Winona.....	Winona City R'y Co.....	12	-----	4.82	.....	272,525	56,540	13,626.28	5.00	-----
MISSISSIPPI.											
307	Enterprise.....	Enterprise Street R'y Co.....	12	-----	1.25	2,670	2,136	1,709	160.00	7.49	5.99
308	Jackson.....	Jackson City R'y Co.....	12	-----	5.00	.....	385,500	77,100	18,300.00	4.75	-----
309	Meridian.....	Meridian Street R. R. Co.....	12	-----	4.00	92,000	210,665	52,666	10,533.25	5.00	11.45

STREET RAILWAYS.

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TABLE 5.—PASSENGER TRAFFIC, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		Length of line operated. (Miles.)	Car mileage.	NUMBER OF PASSENGERS CARRIED.		RECEIPTS FROM PASSENGERS.		
			Months.	Days.			Total.	Per mile of line operated.	Total.	Average per passenger. (Cents.)	Per car mile. (Cents.)
MISSOURI.											
311	Carthage	Carthage Horse R'y Co.	3		3.00		3,650	1,217			
312	Clinton	Clinton Street R'y Co.	12		1.50	15,000	60,000	40,000	\$3,000.00	5.00	20.00
313	Hannibal	Hannibal R'y Co.	12		1.50	73,000	250,000	166,667	10,000.00	4.00	13.70
315	Kansas city	Grand Avenue R'y Co.	12		1.75	71,834	162,935	93,106	8,146.75	5.00	11.34
318	Kansas city	Metropolitan Street R'y Co.	12		6.27	851,017	2,245,293	358,101	112,264.65	5.00	13.19
320	Kansas city	North Kansas City Street R'y	9	18	2.25	13,050	32,450	14,422	1,622.50	5.00	12.43
326	Saint Louis	Baden and Saint Louis R. R.	12		3.00	91,250	169,405	56,468	12,335.30	7.28	13.52
327	Saint Louis	Benton-Bellefontaine R'y Co.	12		7.00		2,361,275	337,325	118,063.75	5.00	
328	Saint Louis	Cass Avenue and Fair Ground R'y Co.	12		3.50		3,444,893	984,255	172,000.00	4.99	
330	Saint Louis	Forest Park, Laclède and Fourth Street R'y Co.	12		4.30	464,382	1,300,217	302,376	60,212.78	4.63	12.97
331	Saint Louis	Fourth Street and Arsenal R'y Co.	12		3.00	365,000	1,140,000	380,000	50,000.00	4.39	13.70
332	Saint Louis	Jefferson Avenue R. R. Co.	12		2.85	433,525	1,743,980	611,923	80,833.80	4.64	18.65
334	Saint Louis	Missouri R. R. Co.	12		3.75	419,076	2,058,747	548,999	88,526.14	4.30	21.12
335	Saint Louis	Mound City Street R'y Co.	12		5.82	768,893	2,321,870	398,947	124,018.70	5.34	16.13
336	Saint Louis	Northern Central R'y Co.	12		8.00		2,197,084	274,636	110,000.00	5.01	
339	Saint Louis	Saint Louis R. R. Co.	12		7.33	1,642,500	7,610,553	1,038,275	380,527.65	5.00	23.17
340	Saint Louis	Southern R'y Co.	12		7.83	695,620	2,744,536	350,515	137,226.83	5.00	19.73
341	Saint Louis	Union Depot R. R. Co.	12		13.97	1,301,052	5,487,526	392,808	264,488.05	4.82	20.33
342	Saint Louis	Union R. R. Co.	12		4.00		2,200,976	550,244	110,000.00	5.00	
344	Springfield	Citizens' R'y Co.	12		7.80	238,318	875,684	112,267	43,376.22	4.95	18.20
345	Warrensburg	Electric Springs R'y	4		2.25	12,000	14,000	6,222	525.00	3.75	4.38
MONTANA.											
348	Helena	Helena Street R'y Co.	12		3.50	40,000	249,050	71,157	22,000.00	8.83	55.00
NEBRASKA.											
349	Beatrice	Beatrice Street R'y Co.	12		4.00	67,500	69,195	17,299	3,204.50	4.63	4.75
350	Fremont	Fremont Street R'y Co.	12		5.00	78,840	80,000	16,000	2,930.00	3.66	3.72
351	Grand Island	Grand Island Street R'y Co.	12		6.77	146,000	207,384	30,633	8,295.34	4.00	5.68
353	Kearney	Kearney Street R'y Co.	12		4.00	36,500	44,000	11,000	2,200.20	5.00	6.03
354	Lincoln	Bethany Heights Street R'y Co.	12		3.00	43,800	15,600	5,200	780.00	5.00	1.78
356	Lincoln	Lincoln Street R'y Co.	12		12.84	522,203	1,291,163	100,558	58,403.03	4.52	11.18
357	Lincoln	South Lincoln Street R'y	12		2.50	14,608	13,405	5,362	1,106.88	8.26	7.58
358	Lincoln	Standard Street R'y Co.	6		6.25	109,500	255,500	40,880			
359	Nebraska city	Nebraska City Street R'y Co.	12		3.25	78,840	60,059	18,480	3,002.95	5.00	3.81
360	Norfolk	Norfolk Street R'y Co.	12		2.50	29,200	75,000	30,000	3,965.00	5.29	13.58
362	Wymore	Wymore and Blue Springs R'y Co.	12		3.75	46,062	33,525	8,940	2,793.81	8.33	6.07
363	York	York Street R'y Co.	12		2.05	18,710	40,000	19,512	2,000.00	5.00	10.69
NEW HAMPSHIRE.											
364	Dover	Dover Horse R. R.	12		2.39	21,809	125,200	52,385	6,238.17	4.98	28.60
365	Laconia	Laconia and Lake Village Horse R. R.	12		2.45	53,078	186,359	76,065	10,680.97	5.73	20.12
366	Manchester	Manchester Street R'y	9		9.00		701,232	77,915	34,970.50	4.99	
367	Nashua	Nashua Street R'y	12		3.90	138,860	436,938	112,035	21,749.15	4.98	15.66
NEW JERSEY.											
370	Camden	Camden Horse R. R. Co.	12		14.12	802,828	2,898,770	205,295	114,869.15	3.96	14.31
372	Jersey city	Jersey City and Bergen R. R. Co.	12		18.25	1,875,539	10,816,685	592,695	519,758.90	4.81	27.71
374	Keyport	Keyport and Matawan Street R'y Co.	12		3.00	102,200	110,000	36,667			
376	Newark	Newark and Irvington Street R'y Co.	12		2.90		2,323,610	801,245	115,029.18	4.95	
377	Newark	Newark and South Orange Horse Car R. R.	12		8.00	925,640	3,745,274	468,159	187,263.68	5.00	20.23
379	Orange	Orange Cross Town and Bloomfield R'y Co.	12		6.50	292,000	855,493	131,614	42,776.12	5.00	14.65
380	Paterson	Paterson R'y Co.	12		14.00	542,755	2,000,000	142,857	76,484.00	3.82	14.09
381	Phillipsburg	Phillipsburg Car R. R. Co.	12		2.25	84,510	123,400	54,844	6,787.17	5.50	8.03
NEW MEXICO.											
382	Albuquerque	Albuquerque Street R. R. Co.	12		2.00	67,768	72,260	36,130	7,226.85	10.00	10.66
383	Las Vegas	Las Vegas Street R'y Co.	12		1.50	73,500	90,000	60,000	4,600.00	5.11	6.26
NEW YORK.											
385	Albany	North and East Greenbush Horse R. R. Co.	12		1.70	26,052	165,291	97,230	9,917.47	6.00	38.07
387	Amsterdam	Amsterdam Street R. R. Co.	12		1.63	64,605	142,068	87,158	5,682.74	4.00	8.80
388	Auburn	Auburn City R'y Co.	12		5.13	89,425	236,663	46,133	11,833.16	5.00	13.23
389	Babylon	Babylon Horse R. R.	3		1.25	45,000	14,169	11,335	805.95	5.69	1.79
391	Binghamton	Binghamton Street R. R. Co.	3	8	3.00	34,020	30,647	10,216	1,379.00	4.50	4.05
392	Binghamton	Court Street and East End R. R. Co.	12		3.25	81,686	196,956	60,602	9,219.85	4.68	11.29
393	Brooklyn	Atlantic Avenue R'y Co.	12		11.50	1,989,249	9,844,840	856,073	461,478.65	4.69	23.20
394	Brooklyn	Broadway R. R. Co. of Brooklyn	12		11.09	1,666,490	7,327,220	660,705	356,702.66	4.87	21.40
395	Brooklyn	Brooklyn, Bushwick and Queens County R. R.	12		6.12	401,500	1,454,808	237,714	66,193.74	4.55	16.49
396	Brooklyn	Brooklyn City and Newtown R. R. Co.	12		11.40	1,494,962	8,954,675	785,498	382,324.89	4.27	25.57
397	Brooklyn	Brooklyn City R. R. Co.	12		78.35	13,570,000	66,500,000	848,756	3,188,716.70	4.80	23.50
402	Brooklyn	Coney Island and Brooklyn R. R. Co.	12		11.60	812,160	4,548,510	392,113	218,134.06	4.80	26.86
409	Brooklyn	Prospect Park and Coney Island R. R. Co. (City Div.).	12		3.50	673,051	3,237,714	925,061	151,467.86	4.68	22.50
410	Brooklyn	Prospect Park and Flatbush R. R. Co.	12		1.50	64,800	68,130	45,420	3,306.50	4.85	5.10
412	Brooklyn	South Brooklyn Central R. R. Co.	12		4.00	481,800	1,964,390	491,098	94,290.75	4.80	19.57

STATISTICS OF TRANSPORTATION.

TABLE 5.—PASSENGER TRAFFIC, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		Length of line operated. (Miles.)	Car mileage.	NUMBER OF PASSENGERS CARRIED.		RECEIPTS FROM PASSENGERS.		
			Months.	Days.			Total.	Per mile of line operated.	Total.	Average per passenger. (Cents.)	Per car mile. (Cents.)
NEW YORK—con.											
413	Brooklyn	Van Brunt Street and Erie Basin R. R. Co.	12		1.50	131,400	1,045,256	696,837	\$31,357.68	3.00	23.86
414	Buffalo	Buffalo East Side Street R'y Co.	12		31.70	1,092,379	5,858,879	184,823	278,114.97	4.75	25.46
415	Buffalo	Buffalo Street R. R. Co.	12		8.60	1,913,313	10,169,848	1,182,540	483,229.89	4.75	25.26
416	Buffalo	West Side Street R'y Co.	12		2.00		397,256	198,628	4,300.42	(a)	
417	Canandaigua	Canandaigua Street R. R. Co.	12		2.50	61,440	132,565	53,026	5,523.58	4.17	8.99
418	Cortland	Cortland and Homer Horse R. R. Co.	12		3.89	38,792	125,250	32,198	9,704.35	7.75	25.02
419	Elmira	Elmira and Horseheads R'y Co.	12		11.90	95,000	581,516	48,867			
420	Far Rockaway	Rockaway Village R. R. Co.	12		1.15	9,984	39,338	34,207	1,966.87	5.00	19.70
421	Frankfort	Frankfort and Ilion Street R. R. Co.	12		2.50	23,225	57,119	22,848	4,118.28	7.21	17.73
422	Fredonia	Dunkirk and Fredonia R. R. Co.	12		3.51	25,550	102,079	29,082	9,973.05	9.77	39.03
423	Fulton	Fulton and Oswego Falls Street R'y Co.	12		1.14	28,759	66,980	58,754	3,494.00	5.22	12.15
424	Glens Falls	Glens Falls, Sandy Hill and Fort Edward Street R'y Co.	12		7.25	54,750	280,859	38,739	16,851.57	6.00	30.78
426	Jamestown	Jamestown Street R'y Co.	12		3.37	74,460	288,015	85,464	11,760.72	4.08	15.79
427	Johnstown	Johnstown, Gloversville and Kingsboro Horse R'y Co.	12		4.08	41,650	155,000	37,990	14,334.48	9.25	34.42
428	Kingston	Kingston City R. R. Co.	12		2.78	138,990	446,770	160,709	29,044.70	6.50	20.90
429	Lockport	Lockport Street R. R. Co.	12		2.99	122,027	185,171	61,930	9,258.53	5.00	7.59
430	Long Island city.	Long Island City and Newtown R. R. Co.	12		4.50	146,000	350,650	77,922	23,320.65	6.65	15.97
431	Long Island city.	Steinway and Hunters Point R. R. Co.	12		18.75	850,000	2,586,197	137,931	128,029.63	4.95	15.06
432	Mohawk	Herkimer and Mohawk Street R. R. Co.	12		1.30	17,520	105,503	81,156	6,194.10	5.87	35.35
433	Mohawk	Mohawk and Ilion Horse R. R. Co.	12		1.75	19,000	133,070	76,040	6,269.10	4.71	33.00
434	New Brighton	Staten Island Belt Line R. R. Co.	12		7.00	131,860	289,425	41,346	14,471.28	5.00	10.97
435	Newburg	Newburg Street R'y Co.	12		3.50	190,530	495,897	141,685	24,794.85	5.00	13.01
436	New York	Broadway and Seventh Avenue R. R. Co.	12		11.69	4,245,830	31,897,880	2,728,647	1,594,894.00	5.00	37.56
437	New York	Central Cross Town R. R. Co.	12		02.04	1,224,830	5,798,595	2,842,449	289,929.76	5.00	23.67
438	New York	Central Park, North and East River R. R. Co.	12		13.00	2,356,567	15,432,194	1,187,092	768,837.07	4.98	32.63
439	New York	Chambers Street and Grand Street Ferry R. R. Co.	12		2.33	648,844	2,509,666	1,077,110	125,483.33	5.00	19.34
440	New York	Christopher and Tenth Street R. R. Co.	10		3.75	616,512	4,558,443	1,215,585	227,922.15	5.00	36.97
441	New York	Dry Dock, East Broadway and Battery R. R. Co.	12		10.73	1,973,627	15,609,996	1,454,799	780,449.80	5.00	39.54
442	New York	Eighth Avenue R. R. Co.	12		10.00	2,847,000	13,940,003	1,394,000	697,000.14	5.00	24.48
443	New York	Forty-second Street and Grand Street Ferry R. R. Co.	12		5.13	1,168,000	8,473,722	1,651,798	423,686.10	5.00	36.27
444	New York	Forty-second Street, Manhattanville and Saint Nicholas Avenue R'y Co.	12		10.71	1,991,963	9,915,254	925,794	495,762.71	5.00	24.89
445	New York	Harlem Bridge, Morrisania and Fordham R'y Co.	12		9.09	732,283	3,240,726	356,516	171,952.58	5.30	23.48
446	New York	Houston, West Street and Pavonia Ferry R. R. Co.	12		5.13	999,169	5,163,918	1,006,612	258,195.90	5.00	25.84
448	New York	Larchmont Horse R'y Co.	12		1.50	32,850	68,347	45,565	3,417.35	5.00	10.40
451	New York	Mount Vernon and East Chester R'y Co.	12		4.00	76,650	239,280	59,820	11,915.60	4.98	15.55
452	New York	New Rochelle and Pelham R'y Co.	12		7.00		165,777	23,682	8,288.85	5.00	
454	New York	New York and Harlem R. R. Co. (St. R'y Div.)	12		8.58	2,582,830	17,625,012	2,054,197	881,250.60	5.00	34.12
455	New York	Ninth Avenue R. R. Co.	12		8.00	1,569,500	4,738,619	592,327	236,930.98	5.00	15.10
456	New York	Pelham Park R. R. Co.	12		3.00	55,000	154,000	51,333	9,025.95	5.86	16.41
457	New York	Second Avenue R. R. Co.	12		13.50	3,802,925	18,155,128	1,344,824	907,756.40	5.00	23.87
458	New York	Sixth Avenue R. R. Co.	12		4.56	1,081,985	14,339,592	3,144,647	716,979.60	5.00	66.27
460	New York	Third Avenue R. R. Co.	12		8.25	4,380,000	24,536,240	2,974,090			
461	New York	Twenty-third Street R'y Co.	12		6.87	2,437,655	14,178,626	2,063,847	708,931.30	5.00	29.08
462	Niagara Falls	Niagara Falls and Suspension Bridge R'y Co.	12		1.99	88,800	373,234	187,555	18,661.74	5.00	21.02
463	Ogdensburg	Ogdensburg Street R'y Co.	12		4.44	50,000	111,214	25,048	5,494.80	4.94	10.99
464	Olean	Olean Street R'y Co.	12		1.10	18,931	91,362	83,056	4,630.62	5.07	24.46
465	Oneida	Oneida R'y Co.	12		1.50	43,800	97,525	65,017	4,453.20	4.57	10.17
466	Oneonta	Oneonta Street R'y Co.	12		2.27	27,500	93,232	41,071	3,730.29	4.00	13.56
467	Oswego	Oswego Street R'y Co.	12		2.03	40,000	134,536	66,274	6,494.13	4.83	16.24
469	Rochester	Rochester R'y Co.	12		31.13		10,951,300	351,792	547,565.09	5.00	
470	Rome	Rome City Street R'y Co.	12		5.50		326,243	59,317	15,086.98	4.62	
471	Schenectady	Schenectady Street R'y Co.	12		2.00	20,132	170,491	85,246	8,514.79	4.99	42.29
472	Stillwater	Stillwater and Mechanicsville Street R'y Co.	12		4.35	17,000	50,742	11,665	5,383.75	10.61	31.67
473	Syracuse	Central City R'y Co.	12		2.88	169,725	557,217	193,478	26,982.34	4.84	15.90
474	Syracuse	Fifth Ward R. R. Co.	12		2.95	270,000	737,939	250,149	32,172.43	4.36	11.92
475	Syracuse	Fourth Ward R'y Co.	12		2.80	86,140	350,837	125,299	16,549.06	4.72	19.21
476	Syracuse	Genesee and Water Street R. R. Co.	12		3.75	36,500	642,506	171,335	29,138.43	4.54	79.83
477	Syracuse	New Brighton and Onondaga Valley R. R. Co.	12		2.63	58,640	92,821	35,293	4,641.05	5.00	7.91
478	Syracuse	People's R. R. Co. of Syracuse	12		5.95	436,175	1,414,333	237,703	69,424.52	4.91	15.92
479	Syracuse	Syracuse and Geddes R'y Co.	12		2.00	139,700	341,584	170,792	15,581.02	4.56	11.15
480	Syracuse	Syracuse and Onondaga R'y Co.	12		2.00	69,806	529,290	264,645	21,171.60	4.00	30.33
482	Syracuse	Woodlawn and Butternut Street R'y Co.	12		2.19	91,250	291,050	132,900	14,155.68	4.86	15.51
484	Troy	Troy and Albion Horse R. R. Co.	12		3.17	87,600	383,213	120,887	30,232.67	7.89	34.51
487	Utica	Utica and Mohawk R. R. Co.	12		2.75				13,860.16		
NORTH CAROLINA.											
490	Charlotte	Charlotte Street R'y Co.	12		2.50	96,360	194,265	77,706	9,542.67	4.91	9.90
491	Raleigh	Raleigh Street R'y Co.	12		5.00	204,400	250,000	50,000	11,500.00	4.60	5.63

a Passengers chiefly transfers from other lines.

b Did not begin operating leased line until June.

STREET RAILWAYS.

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TABLE 5.—PASSENGER TRAFFIC, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		Length of line operated. (Miles.)	Car mileage.	NUMBER OF PASSENGERS CARRIED.		RECEIPTS FROM PASSENGERS.		
			Months.	Days.			Total.	Per mile of line operated.	Total.	Average per passenger. (Cents.)	Per car mile. (Cents.)
OHIO.											
493	Bellaire.....	Bellaire Street R'y Co.....	12		2.50	73,000	110,000	44,000	\$4,380.00	3.98	6.00
494	Berea.....	Berea Street R. R. Co.....	12		1.15	8,900	30,000	26,087	2,100.00	7.00	23.60
497	Cincinnati.....	Cincinnati Street R'y Co.....	12		46.02	3,512,924	21,181,456	460,266	880,154.42	4.16	25.05
498	Cincinnati.....	Mount Adams and Eden Park Inclined R'y.....	12		3.50	328,500	1,237,550	353,586	61,846.72	5.00	18.83
502	Cleveland.....	Cleveland City Cable R'y Co.....	12		12.00		4,914,285	409,524			
505	Cleveland.....	Woodland Avenue and West Side Street R. R. Co.....	12		22.00	1,479,785	7,906,444	359,384	393,009.86	4.97	26.56
506	Columbus.....	Columbus Consolidated Street R. R. Co.....	12		16.50	2,299,500	7,945,656	481,555	344,555.50	4.34	14.98
507	Columbus.....	Glenwood and Greenlawn Street R'y Co.....	12		4.50	125,000	257,006	57,112	10,195.35	3.97	8.16
509	Dayton.....	Dayton Street R. R. Co.....	12		4.35	401,870	1,354,406	311,358	61,704.73	4.56	15.35
510	Dayton.....	Fifth Street R. R. Co.....	12		4.50	409,530	1,311,344	291,410	59,010.48	4.50	14.41
511	Dayton.....	Oakwood Street R'y Co.....	12		2.75	256,960	694,366	252,497	31,359.32	4.52	12.20
512	Dayton.....	Wayne and Fifth Street R. R. Co.....	12		4.00	284,700	763,320	190,830	33,925.34	4.44	11.92
513	Findlay.....	Blanchard Avenue Street R'y Co.....	12		5.00	50,225	116,800	23,360			
514	Findlay.....	Findlay Street R'y Co.....	12		8.00	262,800	600,000	75,000	29,125.50	4.85	11.08
515	Findlay.....	Lima Avenue Street R'y Co.....	12		3.25	58,400	116,800	35,938			
516	Findlay.....	Wyoming Place and Findlay Street R'y Co.....	12		1.25	17,520	9,188	7,350	459.40	5.00	2.62
520	Lorain.....	Lorain Street R'y Co.....	12		1.36	18,250	87,155	64,085	3,486.22	4.00	19.10
522	Middletown.....	Middletown and Madison Street R'y Co.....	12		1.50	14,000	140,000	93,333	3,353.00	2.40	23.95
524	Newark.....	Newark City R'y Co.....	12		4.00	178,850	240,000	60,000	13,000.00	5.42	7.27
527	Sandusky.....	Sandusky Street R'y Co.....	12		4.00	128,589	254,624	63,656	12,383.58	4.86	9.63
528	Springfield.....	Citizens' Street R. R. Co.....	12		11.11		981,739	88,365	46,301.88	4.72	
531	Toledo.....	Toledo Consolidated Street R'y Co.....	12		32.09	2,493,315	5,656,813	176,280	282,840.61	5.00	11.34
532	Youngstown.....	Youngstown Street R. R. Co.....	12		2.00	94,900	346,400	173,200	12,123.99	3.50	12.78
533	Zanesville.....	Zanesville and McIntire Street R'y Co.....	12		3.00	216,810	335,000	111,667	15,075.00	4.50	6.95
OREGON.											
534	Albany.....	Albany Street R'y Co.....	6		0.80	18,250	37,500	46,875	1,250.00	3.33	6.85
535	Astoria.....	Astoria Street R'y Co.....	12		3.00	164,250	254,151	84,717	12,707.56	5.00	7.74
541	Portland.....	Portland Street R'y Co.....	12		1.82	219,000	450,000	247,253	22,500.00	5.00	10.27
542	Portland.....	Transcontinental Street R'y Co.....	12		7.56	730,512	1,622,300	214,590	81,115.00	5.00	11.10
PENNSYLVANIA.											
545	Altoona.....	City Passenger R'y Co.....	12		3.33	107,200	427,680	128,432	20,543.68	4.80	19.16
546	Beaver Falls.....	Beaver Valley Street R'y Co.....	12		3.10	176,000	484,372	156,249	24,206.79	5.00	13.75
547	Bradford.....	Bradford and Kendall Street R'y Co.....	12		1.50	14,862	99,464	66,309	4,973.20	5.00	33.46
548	Chester.....	Chester Street R'y Co.....	12		7.25	202,027	1,101,840	151,978	49,238.18	4.47	24.37
549	Easton.....	Easton, South Easton and West End Passenger R'y Co.....	12		4.00	68,400	300,286	75,072	14,883.55	4.96	21.76
553	Harrisburg.....	Harrisburg City Passenger R'y Co.....	12		5.33	409,717	860,580	161,460	42,311.41	4.92	10.33
554	Lancaster.....	Lancaster and Millersville R. R. Co.....	12		5.50	28,105	62,806	11,419	11,586.74	18.45	41.23
555	Lancaster.....	Lancaster City Street R'y Co.....	12		5.50	65,730	266,660	48,484	12,822.80	4.81	19.51
556	Lancaster.....	West End Street R'y Co.....	12		1.78	33,484	83,744	47,047	3,800.54	4.54	11.35
557	McKeesport.....	McKeesport Passenger R'y Co.....	12		1.78		200,000	112,360			
558	Norristown.....	Citizens' Passenger R'y Co.....	12		3.00	48,180	267,194	89,065	11,364.90	4.25	23.59
559	Norristown.....	Norristown Passenger R'y Co.....	12		4.00	102,200	183,783	45,946	9,515.55	5.18	9.31
561	Philadelphia.....	Citizens' Passenger R'y Co.....	12		10.50	1,195,525	7,578,836	721,794	338,354.58	4.46	28.30
565	Philadelphia.....	Hestonville, Mantua and Fairmount Passenger R. R. Co.....	12		10.00	578,160	6,429,672	642,967	313,443.62	4.87	54.21
567	Philadelphia.....	Lombard and South Streets Passenger R'y Co.....	12		19.50		7,184,720	368,447	280,902.18	3.91	
568	Philadelphia.....	Manayunk and Roxboro Inclined Plane and R'y Co.....	12		5.42	76,650	320,768	59,182	18,324.40	5.71	23.91
569	Philadelphia.....	People's Passenger R'y Co.....	12		32.70	4,138,912	33,089,348	1,011,907	1,184,984.27	3.58	28.63
570	Philadelphia.....	Philadelphia and Grays Ferry Passenger R'y Co.....	12		10.38		2,740,000	263,969	130,947.86	4.78	
573	Philadelphia.....	Ridge Avenue Passenger R'y Co.....	12		15.00	385,440	7,280,643	485,376	360,153.34	4.95	93.44
574	Philadelphia.....	Second and Third Streets Passenger R'y Co.....	12		37.00		11,356,652	306,937	566,798.67	4.99	
576	Philadelphia.....	Thirteenth and Fifteenth Streets Passenger R'y Co.....	12		14.00	1,720,000	10,270,000	733,571	507,506.46	4.94	29.51
585	Pittsburg.....	Mount Oliver Incline R'y Co.....	12		1.29	54,020	212,753	164,925	5,988.00	2.81	11.08
587	Pittsburg.....	Pittsburg, Allegheny and Manchester Passenger R'y Co.....	12		5.16	782,925	4,928,090	955,056	257,886.06	5.23	32.94
589	Pittsburg.....	Pittsburg and Birmingham Traction Co.....	7	12	6.70	474,500	2,762,925	412,377	138,146.24	5.00	29.11
590	Pittsburg.....	Pittsburg and West End Passenger R'y Co.....	12		5.25	394,200	1,412,453	269,039	86,931.19	6.15	22.05
593	Pittsburg.....	Pittsburg Union Passenger R'y Co.....	12		4.06	408,800	1,487,560	366,394	73,726.21	4.96	18.03
598	Pittston.....	Pittston Street Car Co.....	12		1.75	15,650	103,603	59,202	5,180.15	5.00	33.10
601	Reading.....	Reading City Passenger R'y Co.....	12		16.50	730,000	2,981,044	180,669	115,742.15	3.88	15.86
603	Stroudsburg.....	Stroudsburg Passenger R'y Co.....	12		1.38	8,764	46,163	33,451	2,430.50	5.27	27.73
605	Wilkesbarre.....	Coalville Passenger R. R. Co.....	12		2.50	40,690	157,418	62,967	11,537.03	7.33	28.35
606	Wilkesbarre.....	Wilkesbarre and Kingston Passenger R'y Co.....	12		4.00	75,000	337,630	84,408	31,410.98	9.30	41.88
609	Williamsport.....	Williamsport Passenger R'y Co.....	12		4.92	219,000	487,454	99,076	23,841.97	4.89	10.89
610	York.....	York Street R'y Co.....	12		5.00	124,968	292,893	53,579	13,768.98	4.70	11.02
RHODE ISLAND.											
612	Pawtucket.....	Pawtucket Street R'y Co.....	12		7.10	311,571	964,814	135,889	48,254.49	5.00	15.49
613	Providence.....	Providence Cable Tramway Co.....	6		2.50	79,139	283,742	113,497	14,187.14	5.00	17.93
614	Providence.....	Union R. R. Co.....	12		41.95	2,840,939	16,915,862	403,239	857,737.35	5.07	30.19
615	Woonsocket.....	Woonsocket Street R'y Co.....	12		5.40	69,120	358,235	66,340	17,911.75	5.00	25.91

a The report states, however, that fares are 5, 10, and 15 cents.

STATISTICS OF TRANSPORTATION.

TABLE 5.—PASSENGER TRAFFIC, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		Length of line operated. (Miles.)	Car mileage.	NUMBER OF PASSENGERS CARRIED.		RECEIPTS FROM PASSENGERS.		
			Months.	Days.			Total.	Per mile of line operated.	Total.	Average per passenger. (Cents.)	Per car mile. (Cents.)
SOUTH CAROLINA.											
616	Charleston	Charleston City R'y Co.	12		13.00	593,125	2,012,278	154,791	\$80,491.13	4.00	13.57
617	Charleston	Enterprise R. R. Co.	12		5.69	404,801	929,593	163,373	42,032.07	4.52	10.38
618	Charleston	Middle Street Sullivan's Island R'y Co.	12		2.00	7,944	73,815	36,908	4,428.89	6.00	55.75
619	Greenville	Street R'y Co. of the City of Greenville	12		2.25	41,975	60,000	26,667			
620	Orangeburg	Orangeburg City Street R'y Co.	12		1.25		15,000	12,000	599.55	4.00	
SOUTH DAKOTA.											
621	Deadwood	Deadwood Street R'y Co.	12		1.75	15,000	20,000	11,429	1,000.00	5.00	6.67
622	Pierre	Pierre City R'y Co.	12		4.10	50,000	77,000	18,780	3,300.00	4.29	6.60
627	Yankton	Yankton Street R'y Co.	2	23	2.00	2,352	5,344	2,672	350.00	6.55	14.88
TENNESSEE.											
630	Chattanooga	City Street R. R. Co.	12		7.24	160,000	912,500	126,036	45,625.00	5.00	28.52
631	Clarksville	Clarksville Street R'y Co.	12		1.75	93,075	128,864	73,637	6,443.19	5.00	6.92
633	Columbia	Columbia Street R'y Co.	12		2.50	14,600	35,893	14,357	1,794.68	5.00	12.29
636	Knoxville	West End Street R. R. Co.	12		1.75	44,165	96,531	55,161	4,826.56	5.00	10.93
TEXAS.											
643	Denison	Denison Street R'y	12		4.00	87,600	167,414	41,854	8,370.76	5.00	9.56
644	El Paso	El Paso Street R'y Co.	12		2.75	180,000	187,023	68,008	14,961.88	8.00	8.31
645	El Paso	Santa Fe Street R'y Co.	12		1.00	109,500	146,000	146,000	5,374.00	3.68	4.91
648	Gainesville	Gainesville Street R'y Co.	12		3.50		110,000	31,429			
649	Galveston	Galveston City R. R. Co.	6		29.89	635,310	1,391,505	46,554	69,575.05	5.00	10.95
651	Houston	Houston City Street R'y Co.	12		15.35	766,500	1,695,691	110,468	84,784.53	5.00	11.06
653	Longview	Longview and Junction R'y Co.	12		0.75	13,140	32,000	42,667			
655	Paris	Paris R'y Co.	12		4.00	56,160	194,376	48,594	10,615.00	5.46	18.90
656	San Antonio	Cross Town R. R. Co.	12		1.13	2,500	1,252	1,108	62.60	5.00	2.50
660	Waco	Waco Street R'y Co.	12		9.00	350,000	395,100	43,900	19,754.00	5.00	5.64
661	Waxahachie	Waxahachie Street R'y Co.	12		2.00	14,400	28,250	14,125	1,412.50	5.00	9.81
662	Weatherford	Weatherford City and Suburban R. R. Co.	1		2.00	4,800	3,600	1,800	180.00	5.00	3.75
VERMONT.											
664	Burlington	Winooski and Burlington Horse R. R. Co.	12		6.00	68,763	250,000	41,667	12,876.44	5.15	18.73
665	Rutland	Rutland Street R'y Co.	12		7.33	79,600	324,590	44,282	16,222.97	5.00	20.38
VIRGINIA.											
666	Charlottesville	Charlottesville and University Street R'y Co.	12		1.50	58,400	157,600	105,067	7,880.00	5.00	13.49
668	Lynchburg	Lynchburg Street R'y Co.	12		3.25	115,933	299,154	92,047	14,253.65	4.76	12.29
669	Norfolk	Berkley Street R'y Co.	1	17	1.25	5,400	10,382	8,306	519.12	5.00	9.61
670	Norfolk	Norfolk City R. R. Co.	12		4.25	299,300	1,234,000	290,353	57,683.09	4.67	19.27
671	Norfolk	Suburban and City Railway and Improvement Co.	12		2.85	182,500	481,830	169,063	22,546.42	4.68	12.35
672	Portsmouth	Portsmouth Street R'y Co.	12		4.17	29,200	275,401	66,043	12,172.00	4.42	41.68
673	Richmond	Richmond and Manchester R'y Co.	12		2.50	136,875	602,460	240,984	26,110.71	4.33	19.08
675	Roanoke	Roanoke Street R'y Co.	12		4.00	49,275	84,037	21,009	3,361.48	4.00	6.82
WASHINGTON.											
676	Olympia	Olympia R'y Co.	12		0.75		30,000	40,000	1,500.00	5.00	
684	Spokane	Spokane Street R'y Co.	6		6.00		150,000	25,000	6,500.00	4.33	
685	Wallawalla	Wallawalla Street Railway and Investment Co.	12		3.50	108,000	122,240	34,926	6,112.00	5.00	5.66
WEST VIRGINIA.											
687	Parkersburg	Park City Street R'y	12		4.00		189,034	47,259	7,881.65	4.17	
WISCONSIN.											
693	Fond du Lac	Fond du Lac Street R'y Co.	12		3.68	109,500	215,642	58,598	9,536.75	4.42	8.71
694	Lacrosse	Lacrosse and Onalaska Street R'y Co.	1		2.88	2,800	1,500	521	279.24	18.62	9.97
695	Lacrosse	Lacrosse City R'y Co.	12		6.51	373,982	708,919	108,897	33,578.31	4.74	8.98
696	Madison	Madison City R'y Co.	12		7.25	186,210	380,000	52,414	18,000.00	4.74	9.67
697	Milwaukee	Cream City R'y Co.	3		14.56	354,296	1,138,788	78,213	53,019.26	4.66	14.96
699	Milwaukee	Milwaukee City R. R. Co.	12		17.86	1,954,956	7,260,484	406,522	325,335.57	4.48	16.64
702	Oshkosh	Oshkosh Street R. R. Co.	12		8.00		425,000	53,125	18,532.94	4.36	
703	Racine	Belle City Street R'y Co.	12		4.50	292,000	500,000	111,111	25,000.00	5.00	8.56
WYOMING.											
706	Cheyenne	Cheyenne Street R. R. Co.	6		4.75	43,200	72,694	15,304	3,634.70	5.00	8.41

STREET RAILWAYS.

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TABLE 5.—PASSENGER TRAFFIC, FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		Length of line operated. (Miles.)	Car mileage.	NUMBER OF PASSENGERS CARRIED.		RECEIPTS FROM PASSENGERS.		
			Months.	Days.			Total.	Per mile of line operated.	Total.	Average per passenger. (Cents.)	Per car mile. (Cents.)
CALIFORNIA.											
71	San Jose.....	San Jose and Santa Clara R'y Co.....	3		5.75	64,260	198,529	34,527	\$9,927.45	5.00	15.45
COLORADO.											
79	Denver.....	Colfax Avenue Electric R. R. Co.....	1	15	6.00	9,466	25,878	4,313			
84	Denver.....	University Park Railway and Electric Co.....	4	24	3.62	40,856	54,003	14,918	2,428.90	4.50	5.95
CONNECTICUT.											
87	Birmingham.....	Derby Street R'y Co.....	12		3.00	85,668	323,244	107,748	16,162.20	5.00	18.87
90	Hartford.....	Hartford and Wethersfield Horse R'y Co.....	12		3.00	58,263	145,523	48,508	7,180.16	4.93	12.32
DELAWARE.											
104	Wilmington.....	Wilmington City R'y Co.....	6		3.00	65,461	302,031	100,677	14,494.85	4.80	22.14
DIST. COLUMBIA.											
109	Washington.....	Eckington and Soldiers' Home R'y Co.....	12		5.00	233,721	750,833	150,167	31,401.27	4.18	13.44
110	Washington.....	Georgetown and Tennallytown R'y Co.....	4	6	4.00	43,800	200,476	50,119	8,975.88	4.48	20.49
GEORGIA.											
121	Atlanta.....	Atlanta and Edgewood Street R. R. Co.....	10	9	2.00	112,893	475,000	237,500	19,570.00	4.12	17.33
123	Atlanta.....	Fulton County Street R. R. Co.....	12		9.42	405,000	1,088,904	115,595	51,670.90	4.75	12.76
ILLINOIS.											
150	Decatur.....	Citizens' Electric Street R'y Co.....	12		6.00	428,500	633,200	105,533	31,660.52	5.00	7.39
151	East Saint Louis.....	Saint Louis and East Saint Louis Electric R'y Co.....	12		1.00	270,000	960,000	960,000	48,814.75	5.08	18.08
156	Moline.....	Moline Central Street R'y Co.....	8	15	2.88	54,000	125,000	43,403	5,207.50	4.17	9.64
158	Peoria.....	Central R'y Co.....	12		6.25	654,000	3,002,014	480,322	126,849.80	4.23	19.40
INDIANA.											
166	Elkhart.....	Citizens' Street R'y Co.....	12		7.00	157,680	121,913	17,416	8,422.51	6.91	5.34
174	Lafayette.....	Lafayette Street R'y Co.....	12		4.00	173,375	290,745	72,686	12,599.04	4.33	7.27
181	Richmond.....	Richmond City R'y Co.....	12		3.00	150,000	300,000	100,000	18,000.00	6.00	12.00
IOWA.											
191	Council Bluffs.....	Omaha and Council Bluffs Railway and Bridge Co.....	12		10.68	725,000			154,860.00		21.36
193	Davenport.....	Davenport Central R'y Co.....	12		2.88	171,550	594,000	206,250			
202	Ottumwa.....	Ottumwa Railway Electric and Steam Co.....	7	3	4.50	59,000	196,000	43,556	10,182.95	5.20	17.26
205	Sioux city.....	Sioux City Street R'y Co.....	1		8.00	67,500			11,996.82		16.88
KANSAS.											
222	Topeka.....	Topeka Rapid Transit R'y Co.....	12		16.50	794,720	1,925,244	116,681	78,935.04	4.10	9.93
KENTUCKY.											
228	Louisville.....	Louisville R'y Co.....	12		4.50	687,315	2,106,759	468,169	105,337.95	5.00	15.33
MARYLAND.											
247	Baltimore.....	North Avenue R'y Co. of Baltimore City.....	1	14	1.63	5,265					
MASSACHUSETTS.											
249	Attleboro.....	Attleboro, North Attleboro and Wrentham Street R'y Co.....	6		6.00	92,400	465,713	77,619	23,084.60	4.96	24.98
250	Beverly.....	Beverly and Danvers Street R'y Co.....	11		4.44	19,754	60,217	13,562	3,043.70	5.05	15.41
252	Boston.....	Boston and Revere Electric Street R'y Co.....	12		2.19	45,653	138,597	63,286	6,908.97	4.98	15.13
253	Boston.....	Lynn and Boston R. R. Co.....	12		12.99	93,960	567,247	43,668	28,362.35	5.00	30.19
257	Boston.....	Quincy and Boston Street R'y Co.....	12		7.87	99,997	579,347	73,615	28,503.49	4.92	28.50
261	Brockton.....	East Side Street R'y Co.....	12		4.25	74,340	259,509	61,061	12,697.85	4.89	17.08
268	Lowell.....	Lowell and Dracut Street R'y Co.....	12		5.03	178,246	845,905	168,172	47,768.15	5.65	26.80
276	Marlboro.....	Marlboro Street R'y Co.....	12		2.51	83,280	383,817	152,915	15,988.45	4.17	19.20
273	Newburyport.....	Newburyport and Amesbury Horse R. R. Co.....	12		4.06	56,784	119,537	29,443	9,564.49	8.00	16.84
274	North Adams.....	Hoosac Valley Street R'y Co.....	12		5.93	127,750	555,508	93,678	30,143.73	5.43	23.60
278	Plymouth.....	Plymouth and Kingston Street R'y Co.....	12		4.25	100,740	348,550	82,012	18,494.00	5.31	18.36
MICHIGAN.											
283	Adrian.....	Adrian City Electric Belt R'y Co.....	9		2.80	119,500	124,764	44,559	6,095.05	4.89	5.10
287	Detroit.....	East Detroit and Grossepoint R'y Co.....	12		9.15	156,220	70,371	7,691	5,002.39	7.11	3.20
289	Detroit.....	Highland Park R'y Co.....	12		3.50	58,380	122,093	34,884	5,592.27	4.58	9.58
294	Port Huron.....	Gratiot Electric R'y Co.....	12		5.25	204,400	382,618	72,880	19,130.93	5.00	9.36
297	Sault Ste. Marie.....	Sault Ste. Marie Street R'y Co.....	12		4.00	79,800	121,024	30,256	5,450.84	4.50	6.83
MINNESOTA.											
304	Saint Paul.....	Saint Paul City R'y Co.....	4	10	5.59	76,150	439,652	78,650	21,982.60	5.00	28.87
305	Stillwater.....	Stillwater Street R'y Co.....	12		5.25	131,400	363,198	69,181	16,509.00	4.55	12.56
MISSOURI.											
318	Kansas city.....	Metropolitan Street R'y Co.....	9	23	4.11	317,656	826,756	201,157	41,337.80	5.00	13.01
319	Kansas city.....	North East Street R'y Co.....	9	24	3.50	383,000	1,356,318	387,519	44,343.70	3.27	11.58
323	Kansas city.....	Vine Street Motor R'y Co.....	6		3.00	122,640	229,099	76,366			
324	Saint Joseph.....	People's Street Railway and Electric Light and Power Co.....	12		7.00	467,930	1,211,868	173,124			
325	Saint Joseph.....	Wyatt Park R'y Co.....	12		6.38	459,900	803,000	125,862	44,070.51	5.49	9.58

a 2.88 miles operated by animal power, for which no report is made.

TABLE 5.—PASSENGER TRAFFIC, FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		Length of line operated. (Miles.)	Car mileage.	NUMBER OF PASSENGERS CARRIED.		RECEIPTS FROM PASSENGERS.		
			Months.	Days.			Total.	Per mile of line operated.	Total.	Average per passenger. (Cents.)	Per car mile. (Cents.)
NEW JERSEY.											
369	Atlantic city...	Camden and Atlantic R. R. Co. (St. R'y Div.)...	12		3.12	277,320	1,421,393	455,575			
NEW YORK.											
391	Binghamton...	Binghamton Street R. R. Co.....	3	8	9.00	136,080	202,588	22,510	\$9,214.69	4.55	6.77
406	Brooklyn...	Jamaica and Brooklyn Road Co.....	12		6.40	131,504	437,712	68,393	20,989.70	4.80	15.96
415	Buffalo...	Buffalo Street R. R. Co.....	12		2.00	35,200	260,000	130,000			
425	Ithaca...	Ithaca Street R. R.....	12		1.00	50,080	121,178	121,178	6,058.87	5.00	12.10
468	Rochester...	Rochester Electric R'y Co.....	11	28	4.70	172,727	418,834	89,114	31,093.38	7.42	18.00
481	Syracuse...	Third Ward R'y Co.....	12		3.00	90,290	721,988	240,663	36,099.42	5.00	39.98
488	Utica...	Utica Belt Line Street R. R. Co.....	4		15.72	59,902	869,529	55,314	40,383.55	4.64	67.42
NORTH CAROLINA.											
489	Asheville.....	Asheville Street R'y Co.....	12		4.19	150,000	600,000	143,198			
OHIO.											
492	Akron.....	Akron Street R. R. Co.....	12		10.00	634,000	1,880,000	188,000	95,000.00	5.05	14.98
495	Canton.....	Canton Street R'y Co. and Lakeside Street R. R. Co.....	9	4	8.25	182,160	442,324	53,615	19,904.56	4.50	10.93
496	Cincinnati.....	Cincinnati Incline Plane R'y Co.....	12		3.25	459,822	1,602,085	492,949	97,663.83	6.10	21.24
497	Cincinnati.....	Cincinnati Street R'y Co.....	12		2.57	871,968	2,240,712	871,872	106,425.97	4.75	12.21
500	Cleveland.....	Broadway and Newburg Street R. R. Co.....	12		6.95		3,200,000	460,432	156,698.19	4.90	
503	Cleveland.....	East Cleveland R. R. Co.....	12		19.50	3,650,000	9,342,931	479,125	434,319.81	4.65	11.90
504	Cleveland.....	Lake View and East Cleveland Street R'y Co.....	10	24	2.68	71,978	183,672	68,534	8,746.30	4.76	12.15
508	Dayton.....	Dayton and Soldiers' Home R. R. Co.....	2	24	2.00	22,008	39,784	19,892	1,790.32	4.50	8.13
519	Lima.....	Lima Street Railway, Motor and Power Co.....	12		4.00	100,000	300,000	75,000	16,052.57	5.35	16.05
521	Mansfield.....	Mansfield Electric Street R'y Co.....	12		4.50	172,500	255,500	56,778			
523	Newark.....	Newark and Granville Electric Street R'y Co.....	6	8	3.00	22,856	47,611	15,870	2,380.55	5.00	10.42
525	Piqua.....	Piqua Street R'y Co.....	5	17	4.00	86,912	164,363	41,091	7,547.51	4.59	8.68
526	Salem.....	Salem Electric R'y Co.....	1	7	2.42	14,450	31,858	13,164	1,561.84	4.90	10.81
529	Steubenville.....	Steubenville Street R'y Co.....	12		2.50	136,900	359,305	143,722	12,227.53	3.40	8.98
OREGON.											
536	Portland.....	Metropolitan R'y Co.....	6		4.25	110,025	526,752	123,942	21,993.16	4.18	19.99
543	Salem.....	Capital City R'y Co.....	1		2.00	6,780	18,340	9,170	990.00	5.40	14.60
PENNSYLVANIA.											
550	Easton.....	Pennsylvania Motor Co.....	12		2.38	45,000	145,000	60,924	7,860.07	5.42	17.47
551	Erie.....	Erie Electric Motor Co.....	12		13.12	688,025	1,553,718	118,424	74,603.50	4.80	10.84
552	Harrisburg.....	East Harrisburg Passenger R'y Co.....	12		5.00	257,793	1,041,973	208,396	52,098.90	5.00	20.21
566	Philadelphia.....	Lehigh Avenue R'y Co.....	2		3.00	18,000	70,000	23,333	3,331.96	4.76	18.51
582	Pittsburg.....	Federal Street and Pleasant Valley Passenger R'y Co.....	6		11.71	702,720	2,752,382	235,045	137,619.08	5.00	19.58
591	Pittsburg.....	Pittsburg, Knoxville and Saint Clair Street R'y Co.....	12		2.50	210,240	219,000	87,600	10,950.00	5.00	5.21
595	Pittsburg.....	Second Avenue Passenger R'y Co.....	3	26	5.50	145,180	464,811	84,511	23,025.00	4.95	15.86
597	Pittsburg.....	Suburban Rapid Transit Street R'y Co.....	12		2.25	45,000	135,000	60,000	6,550.00	4.85	14.56
599	Reading.....	East Reading R. R. Co.....	12		3.00	73,000	159,700	53,233	9,649.45	6.04	13.22
602	Scranton.....	People's Street R'y Co.....	12		15.00	533,125	2,173,493	144,900	106,008.65	4.88	19.88
607	Wilkesbarre.....	Wilkesbarre and Suburban Street R'y Co.....	12		6.00	78,250	300,140	50,023	18,799.98	6.26	24.03
608	Wilkesbarre.....	Wilkesbarre and West Side R'y Co.....	6	22	3.33	54,415	133,000	39,940			
RHODE ISLAND.											
611	Newport.....	Newport Street R'y Co.....	12		3.89	140,108	781,085	200,793	37,134.66	4.75	26.50
TENNESSEE.											
629	Chattanooga.....	Chattanooga Electric Street R. R. Co.....	12		11.11	415,000	1,100,000	99,010	55,000.00	5.00	13.25
641	Nashville.....	United Electric R'y.....	12		29.27	1,824,000	6,425,018	219,509	321,250.90	5.00	17.61
TEXAS.											
652	Laredo.....	Laredo Improvement Co. (St. R'y Div.).....	12		4.25	186,400	400,000	94,118	20,000.00	5.00	10.73
657	Sherman.....	College Park Electric Belt Line.....	3		4.50	30,000	76,620	17,027	3,831.15	5.00	12.77
UTAH.											
663	Salt Lake city.....	Salt Lake City R. R. Co.....	9	14	20.00	1,492,660	1,847,044	92,352	92,352.20	5.00	6.19
VIRGINIA.											
667	Danville.....	Danville Street Car Co.....	12		2.00	112,921	336,333	168,167	15,733.10	4.68	13.93
WASHINGTON.											
680	Seattle.....	Seattle Electric Railway and Power Co.....	12		11.60	279,024	1,790,707	154,371	88,554.57	4.95	31.74
681	Spokane.....	Ross Park Street R'y Co.....	7	14	3.79	162,000	337,500	89,050	11,743.00	3.48	7.25
WEST VIRGINIA.											
686	Huntington.....	Huntington Electric Light and Street R'y Co.....	12		3.25	70,000	300,000	92,308	13,500.00	4.50	19.29
WISCONSIN.											
691	Appleton.....	Appleton Electric Street R'y Co.....	12		3.50	122,640	120,000	34,286	6,705.00	5.59	5.47
705	Superior.....	Douglas County Street R'y Co.....	4		5.43	58,560	160,000	29,466	7,500.00	4.69	12.81

STREET RAILWAYS.

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TABLE 5.—PASSENGER TRAFFIC, FOR THE CENSUS YEAR—Continued.

CABLE RAILWAYS.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		Length of line operated. (Miles.)	Car mileage.	NUMBER OF PASSENGERS CARRIED.		RECEIPTS FROM PASSENGERS.		
			Months.	Days.			Total.	Per mile of line operated.	Total.	Average per passenger. (Cents.)	Per car mile. (Cents.)
CALIFORNIA.											
31	Los Angeles...	Pacific R'y Co.....	12	-----	10.28	1,307,613	4,498,820	437,628	\$211,444.56	4.70	16.17
33	Los Angeles...	Second Street Cable R. R. Co.....	3	11	1.29	21,570	131,491	101,931	6,574.55	5.00	30.48
34	Los Angeles...	Temple Street Cable R'y Co.....	12	-----	3.00	243,930	1,022,000	340,667	48,807.00	4.78	20.01
38	Oakland.....	Oakland R. R. Co.....	12	-----	2.72	310,331	1,346,820	495,154	67,063.40	4.98	21.61
58	San Francisco..	California Street Cable R. R. Co.....	12	-----	2.49	602,250	3,220,761	1,293,478	162,633.45	5.05	27.00
61	San Francisco..	Ferris and Cliff House R'y Co.....	12	-----	8.86	1,244,750	8,113,655	915,762	392,358.16	4.84	31.52
63	San Francisco..	Market Street Cable R'y Co.....	12	-----	12.40	3,156,330	23,241,825	1,874,341	1,145,623.20	4.93	36.30
65	San Francisco..	Omnibus Cable Co.....	12	-----	11.75	-----	17,900,000	1,523,404	895,000.00	5.00	-----
68	San Francisco..	Sutter Street R'y Co.....	12	-----	5.75	1,653,303	10,030,491	1,744,433	501,524.55	5.00	30.33
COLORADO.											
81	Denver.....	Denver City Cable R'y Co.....	12	-----	13.00	2,308,356	5,933,469	456,421	296,673.46	5.00	12.85
83	Denver.....	Denver Tramway Co.....	12	-----	28.50	2,001,138	8,531,579	1,003,715	384,140.62	4.50	19.20
DIST. COLUMBIA.											
112	Washington...	Washington and Georgetown R. R. Co.....	8	-----	3.70	280,600	1,119,724	302,628	49,687.77	4.44	17.71
IOWA.											
197	Dubuque.....	Eleventh Street Elevated R. R. (b).....	12	-----	0.06	-----	65,000	-----	2,194.40	3.38	-----
MICHIGAN.											
291	Grand Rapids..	Valley City Street and Cable R'y Co.....	12	-----	7.75	1,071,000	817,996	105,548	31,875.17	3.90	2.98
MINNESOTA.											
304	Saint Paul.....	Saint Paul City R'y Co.....	12	-----	5.01	1,513,062	5,122,434	1,022,442	256,024.29	5.00	16.92
MISSOURI.											
315	Kansas city...	Grand Avenue R'y Co.....	12	-----	8.57	1,595,650	6,781,683	791,328	335,914.64	4.95	21.05
317	Kansas city...	Kansas City Cable R'y Co.....	12	-----	10.15	3,355,435	9,505,979	936,550	457,048.95	4.81	13.62
318	Kansas city...	Metropolitan Street R'y Co.....	12	-----	11.69	4,698,120	12,662,044	1,083,152	633,102.20	5.00	13.48
321	Kansas city...	People's Cable R'y Co.....	8	-----	3.40	198,202	737,094	216,792	36,854.71	5.00	18.59
334	Saint Louis...	Missouri R. R. Co.....	12	-----	4.50	2,813,316	9,210,564	2,046,792	444,870.24	4.83	15.81
337	Saint Louis...	People's R'y Co.....	2	-----	5.00	193,450	833,334	166,667	-----	-----	-----
338	Saint Louis...	Saint Louis and Suburban R'y.....	12	-----	3.20	1,404,000	4,607,587	1,439,871	203,808.45	4.42	14.52
MONTANA.											
346	Butte city.....	Butte City Street R'y Co.....	12	-----	1.50	-----	720,000	480,000	37,000.00	5.14	-----
NEW YORK.											
453	New York.....	New York and Brooklyn Bridge.....	12	-----	1.14	1,099,030	36,398,254	31,928,293	997,202.57	2.74	90.73
460	New York.....	Third Avenue R. R. Co.....	12	-----	5.75	1,907,125	8,423,760	1,465,002	-----	-----	-----
OHIO.											
497	Cincinnati.....	Cincinnati Street R'y Co.....	12	-----	4.05	1,046,750	4,203,884	1,037,996	206,824.27	4.92	19.76
498	Cincinnati.....	Mount Adams and Eden Park Inclined R'y.....	12	-----	4.00	1,985,600	5,189,683	1,297,421	260,985.47	5.03	13.14
499	Cincinnati.....	Mount Auburn Cable R'y Co.....	12	-----	4.51	569,400	2,250,000	498,891	113,700.00	5.05	10.97
OREGON.											
540	Portland.....	Portland Cable R'y Co.....	12	-----	5.30	-----	1,200,000	226,415	60,000.00	5.00	-----
PENNSYLVANIA.											
581	Pittsburg.....	Duquesne Inclined Plane Co.....	12	-----	0.15	-----	416,574	-----	14,123.28	3.39	-----
583	Pittsburg.....	Fort Pitt Inclined Plane R'y Co.....	12	-----	0.07	9,490	284,829	-----	8,499.60	2.98	8.96
584	Pittsburg.....	Monongahela Inclined Plane Co.....	12	-----	-----	-----	-----	-----	42,943.65	-----	-----
585	Pittsburg.....	Mount Oliver Incline R'y Co.....	12	-----	0.30	-----	-----	-----	48,280.75	-----	-----
586	Pittsburg.....	Penn Inclined Plane Co.....	12	-----	0.16	-----	478,442	-----	-----	-----	-----
592	Pittsburg.....	Pittsburg Traction Co.....	12	-----	5.50	1,413,280	8,229,809	1,496,329	385,112.20	4.68	27.25
594	Pittsburg.....	Saint Clair Inclined Plane Co.....	12	-----	0.39	-----	-----	-----	14,415.20	-----	-----
RHODE ISLAND.											
613	Providence.....	Providence Cable Tramway Co.....	6	-----	3.00	72,000	495,188	165,063	24,759.41	5.00	34.39
WASHINGTON.											
677	Seattle.....	Front Street Cable R'y Co.....	12	-----	1.59	270,000	1,460,000	918,239	73,000.00	5.00	27.04
678	Seattle.....	Lake Washington Cable R. R. Co.....	10	-----	4.85	234,630	1,486,730	306,542	74,336.50	5.00	31.68
679	Seattle.....	Madison Street Cable R'y Co.....	2	25	1.75	127,500	274,360	156,777	13,718.00	5.00	10.76
683	Spokane.....	Spokane Cable R'y Co.....	6	-----	3.00	30,000	90,000	30,000	9,000.00	10.00	30.00

a 13.75 miles operated by electric power, for which no report is made.

b Incline road.

STATISTICS OF TRANSPORTATION.

TABLE 5.—PASSENGER TRAFFIC, FOR THE CENSUS YEAR—Continued.

STEAM PASSENGER RAILWAYS.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		Length of line operated. (Miles.)	Car mileage.	NUMBER OF PASSENGERS CARRIED.		RECEIPTS FROM PASSENGERS.		
			Months.	Days.			Total.	Per mile of line operated.	Total.	Average per passenger. (Cents.)	Per car mile. (Cents.)
ALABAMA.											
3	Birmingham...	Birmingham Railway and Electric Co.....	6		29.75	256,040	1,449,952	48,738	\$110,308.04	7.61	43.08
4	Birmingham...	East Birmingham Land and R. R. Co.....	12		7.00		400,000	57,143	28,000.00	7.00	
5	Birmingham...	Highland Avenue and Belt R. R. Co.....	12		5.86	148,920	821,037	140,109	41,051.85	5.00	27.57
6	Birmingham...	North Birmingham Street R. R. Co.....	12		4.00	140,160	470,692	117,673	23,534.67	5.00	16.79
8	Gadsden.....	Gadsden and Attalla Union R'y Co.....	5		7.25	13,050	30,000	4,138	4,500.00	15.00	34.48
12	Sheffield.....	Sheffield Street R'y Co.....	12		4.40	24,000	36,000	8,182	3,600.00	10.00	15.00
14	Tuscaloosa.....	Tuscaloosa Belt R'y Co.....	12		2.25	8,000	32,128	14,279	1,606.40	5.00	20.08
ARKANSAS.											
19	Little Rock....	City Electric Street R'y Co.....	12		3.25	62,000	204,000	62,769	10,200.00	5.00	16.45
CALIFORNIA.											
26	Los Angeles...	Cahuenga Valley R. R. Co.....	2	15	6.06	4,812	6,500	1,073	651.60	10.00	13.54
32	Los Angeles...	San Gabriel Valley Rapid Transit R'y.....	1		19.70	3,700	5,767	293	1,155.75	20.04	31.24
38	Oakland.....	Oakland R. R. Co.....	12		2.32	38,900	131,023	56,475	6,551.15	5.00	16.84
46	Pomona.....	Pomona Street R. R. Co.....	12		2.88	18,250	17,500	6,076	1,736.40	9.92	9.51
54	San Bernardino.	San Bernardino and Redlands R. R. Co.....	12		10.50	36,500	144,000	13,714	14,400.00	10.00	39.45
55	San Bernardino.	San Bernardino, Arrowhead and Waterman R. R. Co.....	12		4.50	11,250	9,500	2,111	2,903.85	30.57	25.81
56	San Bernardino.	Southern California Motor Road Co.....	1		612.00	15,000	22,784	1,899	2,456.74	10.78	16.38
61	San Francisco...	Ferris and Cliff House R'y Co.....	12		6.03	368,640	1,057,178	175,320	35,607.90	3.37	9.66
63	San Francisco...	Market Street Cable R'y Co.....	12		3.95	48,625	395,684	100,173	19,784.20	5.00	40.69
COLORADO.											
80	Denver.....	Denver and Berkeley Park Rapid Transit Co...	12		5.00	131,400	824,256	164,851	22,728.40	2.76	17.30
FLORIDA.											
119	Tampa.....	Tampa Street R'y Co.....	12		3.40	30,112	363,425	106,890	19,343.09	5.32	64.24
GEORGIA.											
128	Columbus.....	Columbus R. R. Co.....	12		11.00	40,160	231,211	21,019	11,560.55	5.00	28.79
130	Lithia Springs.	Salt Springs and Bowden Lithia R. R.....	4		1.38	5,000	15,000	10,870	750.00	5.00	15.00
131	Milledgeville...	Milledgeville and Asylum Dummy R. R. Co.....	12		5.50	32,400	90,000	16,364	9,600.00	10.67	29.63
134	Savannah.....	City and Suburban R'y Co.....	12		12.00	40,000	70,000	5,833	15,000.00	21.43	37.50
ILLINOIS.											
137	Alton.....	Alton Improvement Association.....	12		3.13	32,850	200,000	63,898	8,500.00	4.25	25.88
INDIANA.											
168	Evansville.....	Evansville, Suburban and Newburg R'y Co....	12		10.90	90,000	120,000	11,009	18,000.00	15.00	20.00
179	Muncie.....	Muncie Street R'y Co.....	8		5.00	27,000	129,860	25,972	6,493.00	5.00	24.05
IOWA.											
188	Cedar Rapids...	Cedar Rapids and Marion R'y.....	12		5.50	33,035	287,776	52,323	23,348.33	8.11	70.68
190	Council Bluffs.	Lake Manawa R'y Co.....	12		4.00	19,500	164,683	41,171	16,000.00	9.72	82.05
194	Des Moines.....	Des Moines Belt Line R'y Co.....	12		4.50	65,000	225,783	50,174	11,289.15	5.00	17.37
204	Sioux city.....	Sioux City and Highland Park R'y Co.....	12		4.75	47,450	96,084	20,228	4,804.20	5.00	10.12
KANSAS.											
215	Leavenworth...	Leavenworth Rapid Transit R'y Co.....	12		5.50	91,615					
220	Topeka.....	Topeka Belt R'y Co.....	12		3.80	16,473	21,332	5,614	519.93	2.44	3.16
LOUISIANA.											
236	New Orleans...	New Orleans, Spanish Fort and Lake R. R. Co...	12		6.70	36,000	126,612	18,897	13,275.70	10.49	36.88
MASSACHUSETTS.											
276	Onset.....	Onset Street R'y Co.....	12		1.00	4,200	17,794	17,794	1,585.00	8.91	37.74
MINNESOTA.											
301	Minneapolis...	Minneapolis, Lyndale and Minnetonka R'y Co...	12		18.00	402,000	2,922,848	162,380	146,142.40	5.00	36.35
MISSOURI.											
314	Kansas city....	East Fifth Street R'y Co.....	12		2.25	93,075	456,319	202,808	22,815.95	5.00	24.51
315	Kansas city....	Grand Avenue R'y Co.....	12		1.81	34,556	95,691	52,868	4,784.55	5.00	13.85
316	Kansas city....	Kansas City and Independence Rapid Transit R'y.....	12		8.16	197,661	810,370	99,310	83,968.64	10.36	42.48
338	Saint Louis....	Saint Louis and Suburban R'y.....	12		15.71	155,000	853,186	54,308	44,384.20	5.20	28.63
MONTANA.											
346	Butte city.....	Butte City Street R'y Co.....	12		7.00		500,000	71,429	35,000.00	7.00	
NEW YORK.											
399	Brooklyn.....	Brooklyn Elevated R. R. Co.....	12		17.93	7,757,303	30,889,535	1,722,785	1,544,476.75	5.00	19.91
407	Brooklyn.....	Kings County Elevated R'y Co.....	12		9.09	3,586,596	14,117,875	1,553,122	705,893.75	5.00	19.68
411	Brooklyn.....	Sea View R. R. Co.....	12		1.00	24,280	280,502	280,502	13,745.53	4.90	56.61
419	Elmira.....	Elmira and Horseheads R'y Co.....	12		5.50	55,440	539,311	98,057			

a Report states, however, that fare is 5 and 10 cents.

b 3 miles operated by animal power, for which no report is made.

STREET RAILWAYS.

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TABLE 5.—PASSENGER TRAFFIC, FOR THE CENSUS YEAR—Continued.

STEAM PASSENGER RAILWAYS—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		Length of line operated. (Miles.)	Car mileage.	NUMBER OF PASSENGERS CARRIED.		RECEIPTS FROM PASSENGERS.		
			Months.	Days.			Total.	Per mile of line operated.	Total.	Average per passenger. (Cents.)	Per car mile. (Cents.)
	NEW YORK—CON.										
447	New York.....	Jerome Park R'y Co.....	12	-----	1.08	-----	27,516	25,478	\$2,751.60	10.00	-----
449	New York.....	Manhattan R'y Co.....	12	-----	32.40	32,192,823	185,833,632	5,735,606	9,291,681.60	5.00	28.86
459	New York.....	Suburban Rapid Transit Co.....	12	-----	3.22	639,425	4,141,216	1,286,092	207,060.80	5.00	32.38
	OREGON.										
538	Portland.....	Mount Tabor Street R. R. Co.....	12	-----	2.65	48,363	91,130	34,389	4,129.87	4.53	8.54
539	Portland.....	Portland and Vancouver R'y Co.....	12	-----	6.60	146,000	214,676	32,527	45,285.50	21.09	31.02
	PENNSYLVANIA.										
600	Reading.....	Mount Penn Gravity R. R. Co.....	12	-----	7.72	17,838	43,964	5,695	9,718.20	22.10	54.48
	SOUTH DAKOTA.										
626	Watertown....	Watertown and Lake Kampeska R'y Co.....	4	-----	5.65	1,600	2,811	498	702.65	25.00	43.92
	TENNESSEE.										
639	Nashville.....	Nashville and West Nashville R. R. Co.....	6	-----	6.00	73,000	250,000	41,667	11,629.05	4.65	15.93
640	Nashville.....	Overland R'y Co.....	12	-----	9.33	-----	641,903	68,800	29,095.15	4.53	-----
	VIRGINIA.										
675	Roanoke.....	Roanoke Street R'y Co.....	12	-----	11.00	69,120	242,767	22,070	14,260.00	5.87	20.63
	WASHINGTON.										
682	Spokane.....	Spokane and Montrose Motor R. R. Co.....	12	-----	3.50	25,000	109,500	31,286	5,000.00	4.57	20.00
	WEST VIRGINIA.										
689	Wheeling.....	Wheeling and Elm Grove R. R.....	12	-----	8.00	146,000	341,057	42,632	27,284.30	8.00	18.69
	WISCONSIN.										
698	Milwaukee....	Milwaukee and Whitefish Bay R'y Co.....	7	-----	5.33	85,200	114,645	21,509	9,171.60	8.00	10.76

TABLE 5.—PASSENGER TRAFFIC, FOR THE CENSUS YEAR—Continued.

RAILWAYS USING MORE THAN ONE KIND OF MOTIVE POWER, THE STATISTICS FOR THE SEVERAL KINDS NOT BEING SEPARABLE.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		Length of line operated. (Miles.)	Car mileage.	NUMBER OF PASSENGERS CARRIED.		RECEIPTS FROM PASSENGERS.		
			Months.	Days.			Total.	Per mile of line operated.	Total.	Average per passenger. (Cents.)	Per car mile. (Cents.)
ALABAMA.											
10	Montgomery	Montgomery Terminal and Street R'y Co.	12		8.50	221,400	410,822	48,332	\$20,541.09	5.00	9.28
11	Selma	Selma Street R. R. Co.	12		7.00	31,200	110,000	15,714			
CALIFORNIA.											
62	San Francisco	Geary Street Park and Ocean R. R. Co.	12		3.80	582,967	3,282,755	863,883	164,137.75	5.00	28.16
67	San Francisco	Presidio and Ferris R. R. Co.	12		6.38	349,935	2,339,856	366,749	116,992.80	5.00	33.43
GEORGIA.											
124	Atlanta	Metropolitan Street R. R. Co.	12		10.00	271,000	1,383,866	138,387	67,868.08	4.90	25.04
ILLINOIS.											
142	Chicago	Chicago City R'y Co.	12		76.48	17,599,680	68,734,969	898,731	3,436,748.46	5.00	19.53
145	Chicago	North Chicago Street R. R. Co.	12		46.37	6,290,172	36,218,807	781,083	1,809,133.45	5.00	28.76
147	Chicago	West Chicago Street R. R. Co.	12		69.25	12,215,903	75,152,694	1,085,237	3,645,128.95	4.85	29.84
161	Rock Island	Rock Island and Milan Street R'y Co.	12		5.50	54,120	144,000	26,182	12,591.00	8.74	23.26
IOWA.											
195	Des Moines	Des Moines Street R. R. Co.	12		15.74	915,360	2,767,355	175,817	136,824.28	4.94	14.95
KANSAS.											
212	Kansas city	Interstate Consolidated Rapid Transit R'y Co.	12		7.89	730,000	3,668,916	465,008	183,445.79	5.00	25.13
LOUISIANA.											
235	New Orleans	New Orleans City and Lake R. R. Co.	12		40.00	3,825,200	13,670,587	341,765	683,529.35	5.00	17.87
MASSACHUSETTS.											
255	Boston	Newton Street R'y Co.	12		5.48	49,418	348,597	63,613	16,685.02	4.79	33.76
259	Boston	West End Street R'y Co.	12		149.90	17,665,360	114,853,081	766,198	5,678,390.07	4.94	32.14
279	Springfield	Springfield Street R'y Co.	12		20.75	683,991	3,628,008	174,844	180,990.50	4.99	26.46
MICHIGAN.											
290	Grand Rapids	Street R'y Co. of Grand Rapids	12		13.50	1,118,412	3,873,736	286,943	191,894.77	4.95	17.16
296	Saginaw	Saginaw Union Street R'y	6		15.50	783,615	1,233,594	79,587	59,913.35	4.86	7.65
MISSOURI.											
329	Saint Louis	Citizens' R'y Co.	12		8.50	3,341,540	8,538,786	1,004,563	427,000.00	5.00	12.78
333	Saint Louis	Lindell R'y Co.	12		5.50		4,809,063	874,375	244,438.67	5.08	
NEBRASKA.											
355	Lincoln	Capital Heights Street R'y Co.	12		3.25	102,000	169,116	52,036	6,764.66	4.00	6.63
361	Omaha	Omaha Street R'y Co.	12		51.50		11,900,000	231,068	583,303.05	4.90	
NEW JERSEY.											
373	Jersey city	North Hudson County R'y Co.	12		24.90	2,536,800	12,598,637	505,969	641,004.85	5.09	25.27
NEW YORK.											
384	Albany	Albany R'y	12		10.12		3,090,384	305,374	155,373.33	5.03	
386	Albany	Watervliet Turnpike and R. R. Co.	12						99,106.57	5.84	15.52
419	Elmira	Elmira and Horseheads R'y Co.	12		8.42	638,750	1,697,463	201,599	33,144.06		
460	New York	Third Avenue R. R. Co.	12						1,647,781.87		
486	Troy	Troy and Lansingburg R. R. Co.	12		13.31	1,107,394	5,861,063	440,350	326,635.01	5.57	29.50
OHIO.											
501	Cleveland	Brooklyn Street R. R. Co. and South Side Street R. R. Co.	12		16.00	2,541,000	8,597,029	537,314	429,851.45	5.00	16.92
PENNSYLVANIA.											
564	Philadelphia	Frankford and Southwark Passenger R. R. Co.	12		18.00	2,430,900	15,078,276	837,682	687,180.03	4.56	28.27
572	Philadelphia	Philadelphia Traction Co.	12		104.04	12,259,312	63,368,712	609,080	3,101,058.17	4.89	25.30
579	Pittsburg	Central Traction Co.	12		3.02	534,725	1,479,856	490,019	51,566.97	3.48	9.64
580	Pittsburg	Citizens' Traction Co.	12		12.50	1,848,858	10,832,192	866,575	545,586.06	5.04	29.51
WEST VIRGINIA.											
690	Wheeling	Wheeling R'y Co.	12		11.20	440,900	1,540,000	137,500	78,279.80	5.08	17.75

STREET RAILWAYS.

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TABLE 6.—CAPITAL STOCK, FUNDED DEBT, INTEREST, AND DIVIDENDS, FOR THE CENSUS YEAR.

RAILWAYS OPERATED BY ANIMAL POWER.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		CAPITAL STOCK.				FUNDED DEBT.			
					Total issued and out-standing.	Dividends for the year.			Total issued and out-standing.	Interest for the year.		
						Rate.	Amount.			Rate.	Amount.	
							Declared.	Paid.			Accrued.	Paid.
			Months.	Days.								
ALABAMA.												
1	Anniston	Anniston City Street R'y Co.	12		\$100,000.00				\$50,000.00	6.00		
7	Decatur	Decatur Street R'y Co.	2		100,000.00				40,000.00	7.00	\$466.67	
ARKANSAS.												
15	Fort Smith	Fort Smith Street R'y Co.	12		150,000.00				30,000.00	7.00	1,050.00	\$1,050.00
16	Helena	Citizens' Street R'y Co.	12		30,000.00							
17	Hot Springs	Hot Springs Street R. R. Co.	12		50,000.00				32,000.00	8.00	2,560.00	1,360.00
18	Little Rock	Capital Street R'y Co.	12		300,000.00		\$8,917.32	\$8,917.32	300,000.00	6.00		
20	Pine Bluff	Citizens' Street R'y Co.	12		30,000.00		4,262.26	4,262.26	20,000.00	7.00	1,400.00	1,400.00
22	Texarkana	Texarkana Street R'y Co.	12		40,000.00				20,000.00	7.00		
CALIFORNIA.												
23	Anaheim	Anaheim Street Car Co.	12		7,950.00							
24	Fresno	Fresno R. R. Co.	12		25,000.00							
27	Los Angeles	Elysian Park Street R'y Co.	6		11,500.00							
29	Los Angeles	Main Street and Agricultural Park R. R. Co.	12		a200,000.00	2.00	4,000.00	4,000.00				
30	Los Angeles	Mateo and Santa Fe Avenue R'y Co.	12		12,000.00							
35	Marysville	Marysville and Yuba City Street R. R. Co.	10		20,000.00							
36	Oakland	Alameda, Oakland and Piedmont R. R. Co.	12		b87,500.00							
37	Oakland	Oakland, Brooklyn and Fruitvale R. R. Co.	12		100,000.00							
39	Ontario	Ontario and San Antonio Heights R. R. Co.	12		150,000.00							
40	Pasadena	Alhambra and Pasadena Street R'y Co.	12		12,000.00				6,000.00	8.00	480.00	480.00
41	Pasadena	City R'y Co.	12		37,150.00							
43	Pasadena	Pasadena Street R. R. Co.	12		20,300.00							
44	Pasadena	West Pasadena R'y Co.	12		27,000.00							
45	Pomona	Orange Grove Street R. R. Co.	12		18,000.00							
47	Pomona	San Antonio and Holt Avenue R. R. Co.	12		c22,000.00							
48	Redlands	Redlands Street R'y Co.	12		16,666.66							
49	Riverside	Hall's Addition Street R'y Co.	12		6,250.00							
50	Riverside	Riverside and Arlington R'y Co.	12		61,337.50							
51	Riverside	Riverside R'y Co.	12		30,000.00							
53	San Bernardino	City Street R. R. Co.	12		20,000.00							
57	San Diego	San Diego Street Car Co.	12		175,000.00							
59	San Francisco	Central R. R. Co.	12		523,233.00							
60	San Francisco	City R. R. Co.	12		332,940.00	4.80	16,000.00	16,000.00				
64	San Francisco	North Beach and Mission R. R. Co.	12		1,000,000.00	1.50	15,000.00	15,000.00				
66	San Francisco	Potrero and Bay View R. R. Co.	12		300,000.00							
70	San Jose	North Side Horse R. R. Co.	12		15,000.00							
73	Santa Ana	Santa Ana, Orange and Tustin Street R'y Co.	12		d29,260.00							
74	Santa Barbara	Santa Barbara and Citizens' Street R'y Co.	12		50,000.00							
75	Santa Cruz	Pacific Avenue R. R. Co.	12		30,000.00	12.00	3,600.00	3,600.00				
76	Santa Rosa	South Side Street R'y Co.	12		11,700.00							
77	Stockton	Stockton Street R. R. Co.	12		200,000.00							
78	Woodland	Woodland Street R. R. Co.	12		6,000.00							
COLORADO.												
82	Denver	Denver City R'y Co.	12		800,000.00							
85	Pueblo	Pueblo City R'y Co.	12		232,000.00							
86	Trinidad	Trinidad Street R'y Co.	12		40,000.00							
CONNECTICUT.												
88	Bridgeport	Bridgeport Horse R. R. Co.	12		140,000.00				50,000.00	6.00	3,000.00	3,000.00
89	Danbury	Danbury and Bethel Horse R'y Co.	12		66,000.00				30,000.00	6.00	1,800.00	1,800.00
91	Middletown	Middletown Horse R. R. Co.	12		23,000.00				5,000.00	5.00	250.00	250.00
92	New Britain	New Britain Tramway Co.	12		30,000.00							
93	New Haven	Fair Haven and Westville R. R. Co.	12		300,000.00	8.00	24,000.00	24,000.00				
94	New Haven	New Haven and Centerville Horse R. R. Co.	12						30,000.00	7.00	2,100.00	2,100.00
95	New Haven	New Haven and West Haven Horse R. R. Co.	12		89,250.00	6.00	5,355.00	5,355.00	50,000.00	5.00	2,500.00	2,500.00
96	New Haven	State Street Horse R. R. Co.	12		46,150.00	6.00	2,769.00	2,820.75	e12,800.00	7.00	896.00	896.00
97	New Haven	Whitney Avenue Horse R'y Co.	12		29,500.00				7,500.00	6.00		
98	Norwalk	Norwalk Horse R'y Co.	12		50,000.00							
99	Norwich	Norwich Street R'y Co.	12		60,000.00							
100	Stamford	Stamford Street R. R. Co.	12		80,050.00				33,100.00	5.00	1,655.00	
101	Waterbury	Waterbury Horse R. R. Co.	12		50,000.00				50,000.00	5.00	2,500.00	2,500.00
102	Westport	Westport and Saugatuck Horse R. R. Co.	12		15,000.00	6.00	900.00	900.00				

a Only \$115,000 paid up.

b Only \$55,114 paid up.

c Only \$13,312 paid in.

d Not including \$1,795 not issued.

e This appears in "Balance sheet" as \$20,300.

TABLE 6.—CAPITAL STOCK, FUNDED DEBT, INTEREST, AND DIVIDENDS, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		CAPITAL STOCK.				FUNDED DEBT.			
					Total issued and out-standing.	Dividends for the year.			Total issued and out-standing.	Interest for the year.		
						Rate.	Amount.			Rate.	Amount.	
							Declared.	Paid.			Accrued.	Paid.
DELAWARE.												
103	Wilmington	Front and Union Street R'y Co...	12		\$31,600.00				\$5,500.00	5.00	\$275.00	\$275.00
104	Wilmington	Wilmington City R'y Co	12		104,500.00	5.00	\$5,225.00	\$5,225.00	90,000.00	5.00	4,500.00	4,500.00
DIST. COLUMBIA.												
105	Washington	Anacostia and Potomac River R. R. Co.	12		50,000.00				50,000.00			
106	Washington	Brightwood R'y Co			60,000.00							
107	Washington	Capitol, North O Street and South Washington R'y Co	12		500,000.00	4.75	23,750.00	24,050.29	50,000.00	6.00	3,000.00	3,000.00
108	Washington	Columbia R'y Co	12		400,000.00							
111	Washington	Metropolitan R. R. Co	12		435,000.00	9.00	65,250.00	65,626.25				
FLORIDA.												
113	Fort Meade	Fort Meade Street R'y Co	12		6,000.00	4.00	240.00	240.00				
114	Jacksonville	Jacksonville Street R. R. Co	12		120,500.00							
115	Jacksonville	Main Street R'y Co	12		15,000.00							
117	Palatka	Palatka and Heights Street R'y Co	12		10,000.00							
118	Pensacola	Pensacola Street Car Co	12		50,000.00				45,000.00	5.00	2,250.00	2,250.00
GEORGIA.												
122	Atlanta	Atlanta Street R. R. Co	12		300,000.00				400,000.00			
127	Brunswick	Brunswick Street R. R. Co	12		200,000.00				150,000.00			
129	Covington	Covington and Oxford Street R. R. Co.	12		16,000.00	8.00	1,280.00	1,280.00				
132	Rome	North and South Street R. R. Co	12		10,000.00							
135	Savannah	Savannah Street and Rural Resort R. R. Co.	12		10,000.00				200,000.00	6.00		
ILLINOIS.												
136	Alton	Alton and Upper Alton Horse Railway and Carrying Co.	12		42,200.00							
138	Aurora	Aurora City R'y Co	12		42,500.00							
139	Belleville	Citizens' Horse R'y Co	12		25,000.00							
140	Bloomington	Bloomington City R'y	12		600,000.00				400,000.00	5.00	20,000.00	20,000.00
141	Cairo	Cairo Street R'y Co	12		20,000.00				10,000.00	8.00	800.00	800.00
143	Chicago	Chicago Passenger R'y Co			1,000,000.00	5.00	50,000.00	50,000.00	1,000,000.00	6.00	(b)	
146	Chicago	South Chicago City R'y Co	12		100,000.00							
148	Chillicothe	People's Street R. R. Co	12		8,000.00							
149	Danville	Citizens' Street R'y Co	12		20,000.00							
152	Freeport	Freeport Street R'y Co	12		45,000.00							
153	Galesburg	College City Street R'y Co	12		40,000.00				16,000.00	7.00	1,120.00	1,120.00
154	Lasalle	Lasalle and Peru Horse and Dummy R. R. Co.	12		15,000.00				7,000.00	9.00	630.00	
155	Mechanicsburg	Mechanicsburg and Buffalo R'y Co.	12		12,000.00				3,500.00	10.00	350.00	
159	Peoria	Fort Clark Horse R'y Co	12		67,600.00				40,000.00	6.00	2,400.00	2,400.00
160	Rockford	Rockford City R'y Co	12		150,000.00				40,108.00			
162	Springfield	Citizens' Street R'y Co	12		38,000.00				63,500.00	7.00	4,445.00	4,445.00
163	Springfield	Springfield City R'y Co	12		125,000.00	3.00	3,750.00	3,750.00	125,000.00	6.00		
164	Urbana	Urbana and Champaign Street R'y Co.	12		40,000.00	11.10	4,440.43	4,440.43				
INDIANA.												
165	Anderson	Anderson Street R'y Co.	12		30,000.00				18,000.00	6.00	1,080.00	1,080.00
167	Evansville	Evansville Street R'y Co.	12		100,000.00				75,000.00	6.00	4,500.00	4,500.00
169	Fort Wayne	C. L. Centlivre Street R'y Co.	12		30,000.00							
170	Fort Wayne	Fort Wayne Street R. R. Co.	12		300,000.00				150,000.00	6.00	9,000.00	9,000.00
172	Indianapolis	Citizens' Street R. R. Co.	12		1,000,000.00	8.00	80,000.00	80,000.00	300,000.00	6.00	18,000.00	18,000.00
173	Jeffersonville	Ohio Falls Street R'y Co	12		20,575.00							
175	Logansport	Logansport R'y Co	11	26	10,000.00				40,000.00	5.00	1,666.67	1,000.00
176	Madison	Madison Street R'y Co.	12		13,000.00							
177	Marion	Marion Street R. R. Co	6		20,000.00							
178	Michigan city	Citizens' Street R'y Co	12		20,000.00							
180	New Albany	New Albany R'y Co.	12		30,000.00				136,000.00	6.00	8,160.00	8,016.00
183	Terre Haute	Terre Haute Street R'y Co	12		158,000.00	7.00	9,310.00	9,310.00	100,000.00	6.00	6,000.00	6,000.00
184	Terre Haute	Vigo County Street R'y Co	12		50,000.00							
185	Vincennes	Vincennes Citizens' Street R'y Co.	12		15,050.00							
IOWA.												
186	Boone	Boone and Boonesboro Street R'y Co.	12		30,000.00	5.50	1,650.00	1,650.00				
188	Cedar Rapids	Cedar Rapids and Marion R'y	7		20,000.00							
189	Centerville	People's Street R'y Co	12		12,000.00	10.00	1,200.00	1,200.00				
192	Davenport	Davenport and Rock Island R'y Co.	12		500,000.00	8.00	40,000.00	40,000.00	150,000.00	6.00	9,000.00	9,000.00
196	Dubuque	Dubuque Street R'y Co.	12		50,000.00				50,000.00	8.00	4,000.00	4,000.00
198	Fort Madison	Fort Madison Street R'y Co	12		100,000.00							
199	Keokuk	Keokuk Street R'y Co	12		30,000.00				6,000.00	6.00	360.00	360.00
200	Lyons	Clinton and Lyons Horse R'y Co.	12		25,000.00							
201	Marshalltown	Marshalltown Passenger R'y Co.	12		22,900.00							
203	Red Oaks	Red Oaks Street R'y Co	12		7,500.00							

a The total capital as reported in "Balance sheet", \$168,653, exceeds by \$18,653 the sum of the two items of capital stock reported in this table under "Railways operated by animal power" and "Electric railways", respectively.

b Paid by lessee.

c 7 per cent dividend on \$133,000.

STREET RAILWAYS.

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TABLE 6.—CAPITAL STOCK, FUNDED DEBT, INTEREST, AND DIVIDENDS, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		CAPITAL STOCK.				FUNDED DEBT.			
					Total issued and out-standing.	Dividends for the year.		Total issued and out-standing.	Interest for the year.			
						Rate.	Amount.		Rate.	Amount.		
			Months.	Days.	Declared.		Paid.	Accrued.		Paid.		
KANSAS.												
207	Abilene.....	Abilene Street R'y Co.....	12		\$50,000.00							
208	Arkansas city.	Arkansas City Street R'y Co.....	12		61,893.36							
210	Cottonwood Falls.	Consolidated Street R'y Co.....	12		6,000.00			\$5,000.00	7.00	\$350.00	\$350.00	
211	Hutchinson.....	Hutchinson Street R'y Co.....	12		50,000.00							
213	Lawrence.....	Lawrence Transportation Co.....	12		50,000.00							
216	McPherson.....	McPherson Street R'y Co.....	12		100,000.00							
217	Newton.....	Newton City Street R'y Co.....	12		260,000.00			30,000.00	6.00	1,800.00	1,800.00	
219	Salina.....	Salina R'y Co.....	12		100,000.00							
221	Topeka.....	Topeka City R'y Co.....	12		200,000.00			121,000.00	6.00	7,260.00	7,260.00	
223	Wichita.....	Wichita Rapid Transit Co.....	12		79,600.00							
224	Winfield.....	Union Street R'y Co.....	12		21,250.00							
KENTUCKY.												
225	Bowling Green.	Park City R'y.....	12		50,000.00							
226	Covington.....	{South Covington and Cincinnati} Street R'y Co.....	12		300,000.00	6.00	\$18,000.00	\$18,000.00	{ 250,000.00 91,000.00 2,000.00	6.00 6.00 5.00	15,000.00 5,460.00 33.33	15,000.00 5,460.00
227	Henderson.....	Henderson Street R'y Co.....	12		100,000.00							
229	Maysville.....	Maysville Street Railroad and Transfer Co.....	12		30,900.00			20,000.00	6.00	1,200.00	1,200.00	
230	Owensboro.....	Owensboro City R'y Co.....			25,000.00			25,000.00	6.00	1,500.00	1,500.00	
231	Paducah.....	Paducah Street R'y Co.....			90,000.00							
LOUISIANA.												
232	New Orleans.....	Canal and Claiborne R. R. Co.....	12		240,000.00			150,000.00	6.00	9,000.00	5,559.00	
233	New Orleans.....	Crescent City R. R. Co.....	12		1,150,000.00	4.00	46,000.00	45,792.50	140,000.00	6.00	8,400.00	8,580.00
234	New Orleans.....	New Orleans and Carrollton R. R. Co.....	12		800,000.00	6.00	24,000.00	19,905.50	335,000.00	6.00	20,100.00	20,100.00
237	New Orleans.....	Orleans R. R. Co.....	12		185,000.00	8.00	14,800.00	13,777.00	23,000.00	6.00	1,380.00	1,150.20
238	New Orleans.....	Saint Charles Street R. R. Co.....	12		594,350.00	8.50	50,519.75	46,614.50	165,000.00	6.00	9,900.00	9,900.00
MAINE.												
239	Biddeford.....	Biddeford and Saco R. R. Co.....	12		40,000.00			40,000.00	6.00	2,400.00	2,355.00	
240	Fryeburg.....	Fryeburg Horse R. R. Co.....	12		5,075.00							
241	Portland.....	Portland R. R. Co.....	12		200,000.00	6.00	12,000.00	12,000.00				
MARYLAND.												
242	Baltimore.....	Baltimore and Powhatan R'y Co.....	12		60,000.00			2,500.00				
243	Baltimore.....	Baltimore City Passenger R'y Co.....	12		1,000,000.00		{ 40,000.00 30,000.00 50,000.00	119,835.00				
244	Baltimore.....	Baltimore Traction Co.....	12		5,000,000.00			1,500,000.00	5.00	75,000.00	75,000.00	
245	Baltimore.....	Baltimore Union Passenger R'y Co.....	12		750,000.00	2.00	15,000.00	15,000.00	{ 50,000.00 70,000.00 150,000.00	6.00 5.00 6.00	3,000.00 3,500.00 9,000.00	3,000.00 3,500.00
246	Baltimore.....	Highlandtown and Point Breeze R'y Co.....	12		180,000.00							
248	Baltimore.....	North Baltimore Passenger R'y Co.....	12		600,000.00	6.00	36,000.00	36,000.00				
MASSACHUSETTS.												
251	Boston.....	Boston and Chelsea Street R. R. Co.....	12		121,000.00	6.00	7,260.00	7,260.00				
254	Boston.....	Malden and Melrose R. R. Co.....	12		200,000.00							
255	Boston.....	Newton Street R'y Co.....	12		100,000.00	2.00	2,000.00	2,000.00				
256	Boston.....	North Woburn Street R. R. Co.....	12		100,000.00							
258	Boston.....	Somerville Horse R. R. Co.....	12		153,000.00	6.00	9,180.00	9,180.00				
260	Brockton.....	Brockton Street R'y Co.....	12		150,000.00	10.00	15,000.00	15,000.00	150,000.00	4.50	4,828.42	4,828.42
262	Fall River.....	Globe Street R'y Co.....	12		300,000.00	6.00	18,000.00	18,000.00				
263	Fitchburg.....	Fitchburg Street R'y Co.....	12		60,000.00	6.00	3,600.00	3,600.00	30,000.00	5.00	750.00	375.00
264	Gloucester.....	Gloucester Street R'y Co.....	12		60,000.00			43,000.00	5.00	2,150.00	2,150.00	
265	Haverhill.....	Haverhill and Groveland Street R'y Co.....	12		144,000.00	6.00	8,640.00	8,640.00				
266	Holyoke.....	Holyoke Street R'y Co.....	12		50,000.00	3.00	1,500.00	1,500.00				
267	Lawrence.....	Merrimack Valley Horse R. R. Co.....	12		80,000.00	8.00	6,400.00	6,400.00				
269	Lowell.....	Lowell Horse R. R. Co.....	12		100,000.00	6.00	6,000.00	4,023.00	50,000.00	5.00	2,500.00	2,500.00
271	Natick.....	Natick and Cochituate Street R'y Co.....	12		25,000.00	6.00	1,500.00	1,500.00				
272	New Bedford.....	Union Street R'y Co.....	12		260,000.00	6.00	15,588.00	11,691.00	93,000.00	5.50	4,850.00	3,487.50
275	Northampton.....	Northampton Street R'y Co.....	12		50,000.00			25,000.00				
277	Pittsfield.....	Pittsfield Street R'y Co.....	12		43,110.00							
280	Taunton.....	Taunton Street R'y Co.....	12		100,000.00	4.00	4,000.00	4,000.00				
281	Wareham.....	East Wareham, Onset Bay and Point Independence Street R'y Co.....	12		12,000.00							
282	Worcester.....	Worcester Consolidated Street R'y Co.....	12		350,000.00	7.50	26,250.00	26,250.00	150,000.00	5.00	7,500.00	7,500.00
MICHIGAN.												
285	Detroit.....	Detroit City R'y.....	12		1,090,000.00	7.00	73,500.00	73,500.00	700,000.00	6.00	42,000.00	42,000.00
288	Detroit.....	Fort Wayne and Elmwood R'y Co.....	12		250,000.00	10.00	25,000.00	12,500.00				
291	Grand Rapids.....	Valley City Street and Cable R'y Co.....	12		172,259.40			97,500.00	5.00	2,454.15	2,454.15	
292	Jackson.....	Jackson City R'y Co.....	12		58,000.00	7.00		58,000.00	7.00			
295	Saginaw.....	City of Saginaw Street R. R. Co.....	12		30,000.00			10,000.00	5.00	500.00	500.00	

a The entry \$17,108.16 in "Balance sheet" presumably represents paid-up stock.

b Dividends were declared only on 2,598 shares, 2 shares being in fractions.

TABLE 6.—CAPITAL STOCK, FUNDED DEBT, INTEREST, AND DIVIDENDS, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		CAPITAL STOCK.				FUNDED DEBT.			
					Total issued and out-standing.	Dividends for the year.			Total issued and out-standing.	Interest for the year.		
						Rate.	Amount.			Rate.	Amount.	
			Months.	Days.			Declared.	Paid.			Accrued.	Paid.
MINNESOTA.												
299	Duluth	Duluth Street R'y Co.	12		\$100,000.00				\$100,000.00	6.00	\$6,000.00	\$6,000.00
300	Mankato	Mankato Street R'y Co.	12		250,000.00							
302	Minneapolis	Minneapolis Street R'y Co.	12		5,000,000.00				{ 400,000.00 600,000.00 975,000.00	7.00 6.00 5.00	28,070.00 36,090.00 13,157.81	28,070.00 36,090.00 13,157.81
303	Saint Cloud	Saint Cloud City Street Car Co.	12		93,000.00							
306	Winona	Winona City R'y Co.	12		37,500.00							
MISSISSIPPI.												
307	Enterprise	Enterprise Street R'y Co.	12		1,400.00							
308	Jackson	Jackson City R'y Co.	12		50,000.00				50,000.00	6.00	3,000.00	3,000.00
309	Meridian	Meridian Street R. R. Co.	12		15,000.00							
310	Natchez	Natchez Street R. R. Co.			6,000.00							
MISSOURI.												
311	Carthage	Carthage Horse R'y Co.	3		30,000.00							
312	Clinton	Clinton Street R'y Co.	12		12,000.00							
313	Hannibal	Hannibal R'y Co.	12		25,000.00							
326	Saint Louis	Baden and Saint Louis R. R.	12		50,000.00	3.00	\$1,500.00	\$1,500.00				
327	Saint Louis	Benton-Bellefontaine R'y Co.	12		324,000.00				50,000.00	7.00	3,500.00	3,500.00
328	Saint Louis	Cass Avenue and Fair Grounds R'y Co.	12		300,000.00	15.00	45,000.00	45,000.00	200,000.00	6.00	12,000.00	12,000.00
330	Saint Louis	Forest Park, Laclede and Fourth Street R'y Co.	12		93,700.00				92,100.00	7.00	6,447.00	6,447.00
331	Saint Louis	Fourth Street and Arsenal R'y Co.	12		150,000.00				50,000.00			
332	Saint Louis	Jefferson Avenue R. R. Co.	12		112,000.00	6.00	6,720.00	6,720.00	100,000.00	6.00	6,000.00	6,000.00
335	Saint Louis	Mound City Street R'y Co.	12		125,000.00	40.00	50,000.00	50,000.00	125,000.00	6.00	7,500.00	7,500.00
336	Saint Louis	Northern Central R'y Co.	12		200,000.00				200,000.00	6.00	12,000.00	12,000.00
339	Saint Louis	Saint Louis R. R. Co.	12		1,000,000.00	11.00	110,000.00	110,000.00				
340	Saint Louis	Southern R'y Co.	12		200,000.00				200,000.00	6.00	12,000.00	12,000.00
341	Saint Louis	Union Depot R. R. Co.	12		6400,000.00	6.25	25,000.00	25,000.00	6350,000.00	6.00	21,000.00	21,000.00
342	Saint Louis	Union R. R. Co.	12		600,000.00	4.00	24,000.00	24,000.00	150,000.00	6.00	9,000.00	9,000.00
344	Springfield	Citizens' R'y Co.	12		120,000.00	6.00	7,200.00	7,200.00	80,000.00	7.00	5,600.00	5,600.00
MONTANA.												
348	Helena	Helena Street R'y Co.	12		36,000.00							
NEBRASKA.												
349	Beatrice	Beatrice Street R'y Co.	12		34,000.00							
350	Fremont	Fremont Street R'y Co.	12		30,000.00							
351	Grand Island	Grand Island Street R'y Co.	12		50,000.00				20,000.00	6.00		
352	Hastings	Citizens' Street R'y Co.			100,000.00							
353	Kearney	Kearney Street R'y Co.	12		14,640.00				10,000.00	8.00	800.00	
354	Lincoln	Bethany Heights Street R'y Co.	12		12,500.00							
356	Lincoln	Lincoln Street R'y Co.	12		800,000.00				{ 100,000.00 100,000.00	6.00 5.00	6,000.00 2,500.00	6,000.00 2,500.00
357	Lincoln	South Lincoln Street R'y	12		9,000.00							
358	Lincoln	Standard Street R'y Co.	6		60,000.00							
359	Nebraska city	Nebraska City Street R'y Co.	12		17,500.00							
360	Norfolk	Norfolk Street R'y Co.	12		50,000.00							
362	Wymore	Wymore and Blue Springs R'y Co.	12		33,400.00							
363	York	York Street R'y Co.	12		9,000.00				10,000.00	7.00	350.00	350.00
NEW HAMPSHIRE.												
364	Dover	Dover Horse R. R.	12		19,450.00							
365	Laconia	Laconia and Lake Village Horse R. R.	12		20,000.00	6.00	1,200.00					
366	Manchester	Manchester Street R'y	9		25,000.00							
367	Nashua	Nashua Street R'y	12		20,000.00	3.00	600.00	600.00				
NEW JERSEY.												
370	Camden	Camden Horse R. R. Co.	12		250,000.00				{ 41,600.00 208,400.00 188,000.00	7.00 5.00 6.00	2,912.00 10,420.00	4,421.67 8,358.11
371	Elizabeth	Elizabeth and Newark Horse R. R. Co.	12		233,333.33							
372	Jersey city	Jersey City and Bergen R. R. Co.	12		720,000.00		60,000.00	60,000.00	258,000.00	7.00	18,060.00	18,060.00
374	Keyport	Keyport and Matawan Street R'y Co.	12						60,000.00	6.00	3,600.00	
375	Newark	Essex Passenger R'y Co.	12		600,000.00	4.00	24,000.00	48,190.00	{ 100,000.00 496,500.00 753,500.00 200,000.00	6.00 6.00 6.00 7.00	6,000.00 29,790.00 45,210.00 14,000.00	
376	Newark	Newark and Irvington Street R'y Co.	12		100,000.00	10.00	9,940.00	9,940.00	50,000.00	6.00	3,000.00	3,000.00
377	Newark	Newark and South Orange Horse Car R. R.	12		75,000.00							
379	Orange	Orange Cross Town and Bloomfield R'y Co.	12		60,000.00				60,000.00	6.00	3,600.00	3,600.00
380	Paterson	Paterson R'y Co.	12		135,000.00				{ 165,000.00 18,000.00	6.00 5.00	9,900.00 900.00	9,900.00 900.00
381	Phillipsburg	Phillipsburg Car R. R. Co.	12		30,000.00							

a Only 28 per cent of this paid in. See "Balance sheet".

b The items "capital stock" and "funded debt" seem to have been interchanged by the company reporting, either in this table or in "Balance sheet".

c 6 shares not issued until after dividend of December, 1889, was declared.

STREET RAILWAYS.

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TABLE 6.—CAPITAL STOCK, FUNDED DEBT, INTEREST, AND DIVIDENDS, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		CAPITAL STOCK.				FUNDED DEBT.			
					Total issued and out-standing.	Dividends for the year.			Total issued and out-standing.	Interest for the year.		
						Rate.	Amount.			Rate.	Amount.	
			Months.	Days.		Declared.	Paid.		Accrued.	Paid.		
NEW MEXICO.												
382	Albuquerque	Albuquerque Street R. R. Co.	12		\$60,000.00				\$22,000.00	8.00	\$1,760.00	
383	Las Vegas	Las Vegas Street R'y Co.	12		41,300.00							
NEW YORK.												
385	Albany	North and East Greenbush Horse R. R. Co.	12		50,000.00				29,000.00	5.00	1,450.00	
387	Amsterdam	Amsterdam Street R. R. Co.	12		15,000.00							
388	Auburn	Auburn City R'y Co.	12		50,000.00				251,500.00	6.00	3,090.00	\$3,090.00
389	Babylon	Babylon Horse R. R.	3		5,600.00							
390	Binghamton	Binghamton and Port Dickenson R. R. Co.	12		27,164.50							
392	Binghamton	Court Street and East End R. R. Co.	12		35,000.00							
393	Brooklyn	Atlantic Avenue R'y Co.	12		1,000,000.00	6.00	\$60,000.00	\$60,000.00	965,500.00		51,085.00	51,085.00
394	Brooklyn	Broadway R. R. Co. of Brooklyn	12		525,000.00	5.00	26,250.00	26,250.00	250,000.00	5.00	12,500.00	12,500.00
395	Brooklyn	Brooklyn, Bushwick and Queens County R. R.	12		100,000.00				100,000.00	5.00	5,000.00	5,000.00
396	Brooklyn	{Brooklyn City and Newtown R. R. Co.	12		1,000,000.00				400,000.00	7.00	28,000.00	28,000.00
									200,000.00	7.00	14,000.00	14,000.00
									381,000.00	5.00		
397	Brooklyn	Brooklyn City R. R. Co.	12		6,000,000.00		368,000.00	368,000.00	800,000.00	5.00	40,000.00	40,000.00
398	Brooklyn	Brooklyn Cross Town R. R. Co.	12		500,000.00				200,000.00	5.00	10,000.00	10,000.00
400	Brooklyn	Bushwick R. R. Co.	12		500,000.00				400,000.00	6.00	24,000.00	24,000.00
401	Brooklyn	Calvary Cemetery, Green Point and Brooklyn R. R. Co.	12		100,000.00				164,000.00	5.00	8,200.00	8,200.00
									200,000.00	6.00	12,000.00	12,000.00
404	Brooklyn	Grand Street and Newtown R. R. Co.	12		170,000.00				200,000.00	5.00	10,000.00	10,000.00
405	Brooklyn	Green Point and Lorimer Street R. R. Co.	12		120,000.00				125,000.00	6.00	7,500.00	7,500.00
408	Brooklyn	New Williamsburg and Flatbush R. R. Co.	12		300,000.00				200,000.00	7.00	14,000.00	14,000.00
410	Brooklyn	Prospect Park and Flatbush R. R. Co.	12		50,000.00				20,000.00	6.00	1,200.00	1,200.00
412	Brooklyn	South Brooklyn Central R. R. Co.	12		125,000.00				125,000.00	7.00	8,750.00	8,750.00
									150,000.00	6.00	9,000.00	9,000.00
									3,500.00	5.00	175.00	175.00
413	Brooklyn	Van Brunt Street and Erie Basin R. R. Co.	12		75,000.00				25,000.00	6.00	1,500.00	1,500.00
									300,000.00	7.00	21,300.00	21,300.00
									293,500.00	6.00	17,610.00	17,610.00
									30,000.00	6.00	1,800.00	1,800.00
414	Buffalo	Buffalo East Side Street R'y Co.	12		100,000.00				40,000.00	6.00	2,400.00	2,400.00
									12,500.00	6.00	750.00	750.00
									5,000.00	6.00	300.00	300.00
									13,000.00	6.00	780.00	780.00
416	Buffalo	West Side Street R'y Co.	12		5,000.00							
417	Canandaigua	Canandaigua Street R. R. Co.	12		330,000.00				20,000.00	6.00	1,200.00	1,200.00
418	Cortland	Cortland and Homer Horse R. R. Co.	12		40,000.00	3.00	1,200.00	1,200.00				
420	Far Rockaway	Rockaway Village R. R. Co.	12		25,000.00				25,000.00	5.00	1,250.00	1,250.00
421	Frankfort	Frankfort and Ilion Street R. R. Co.	12		14,275.00	10.00	1,427.50	1,427.50				
422	Fredonia	Dunkirk and Fredonia R. R. Co.	12		57,000.00	8.00	4,560.00	4,560.00				
423	Fulton	Fulton and Oswego Falls Street R'y Co.	12		15,000.00				15,000.00	6.00	900.00	900.00
424	Glens Falls	Glens Falls, Sandy Hill and Fort Edward Street R'y Co.	12		70,000.00				24,000.00	6.00	1,440.00	1,440.00
426	Jamestown	Jamestown Street R'y Co.	12		100,000.00				25,000.00	6.00	1,500.00	1,500.00
427	Johnstown	Johnstown, Gloversville and Kingsboro Horse R'y Co.	12		50,000.00	5.00	2,500.00	2,500.00	1,000.00	5.00	50.00	50.00
428	Kingston	Kingston City R. R. Co.	12		50,000.00	10.00	5,000.00	5,000.00	15,000.00	7.00	1,050.00	1,050.00
									10,000.00	5.00	500.00	500.00
									6,000.00	6.00	360.00	360.00
429	Lockport	Lockport Street R. R. Co.	12		35,000.00				25,000.00	5.00	1,250.00	1,250.00
430	{Long Island city.	Long Island City and Newtown R. R. Co.	12		150,000.00				100,000.00	6.00	6,000.00	6,000.00
									100,000.00	6.00	6,000.00	6,000.00
									60,000.00	6.00	3,600.00	3,600.00
									60,000.00	6.00	3,600.00	3,600.00
431	{Long Island city.	Steinway and Hunters Point R. R. Co.	12		250,000.00				25,000.00	7.00	1,750.00	1,750.00
									20,000.00	6.00	1,200.00	1,200.00
									100,000.00	6.00	6,000.00	6,000.00
									80,000.00	6.00	4,800.00	4,800.00
432	Mohawk	Herkimer and Mohawk Street R. R. Co.	12		17,000.00	12.00	2,040.00	2,040.00				
433	Mohawk	Mohawk and Ilion Horse R. R. Co.	12		15,000.00	22.00	3,300.00	3,300.00				
435	Newburg	Newburg Street R'y Co.	12		40,000.00				100,000.00	6.00	6,000.00	6,000.00
									1,500,000.00	5.00	75,000.00	75,000.00
436	New York	{Broadway and Seventh Avenue R. R. Co.	12		2,100,000.00	8.00	168,000.00	168,000.00	500,000.00	5.00	25,000.00	25,000.00
									100,000.00	5.00	5,000.00	5,000.00
									100,000.00	5.00	5,000.00	5,000.00
437	New York	Central Cross Town R. R. Co.	12		600,000.00	7.25	43,500.00	43,500.00	250,000.00	6.00	15,000.00	15,000.00
438	New York	Central Park, North and East River R. R. Co.	12		1,800,000.00	3.00	54,000.00	54,000.00	1,200,000.00	7.00	84,000.00	84,000.00

a Appears as \$60,000 in "Balance sheet". This later entry seems to include liabilities not properly classed in funded debt.

b Only \$12,704.24 paid up.

c Includes \$119.16 interest for previous year.

d Authorized. Paid up, \$22,251.21.

e In addition to these items interest is paid in the form of rentals as follows: on the Broadway Surface R. R. bonds, \$106,250; on the South Ferry R. R. bonds, \$17,500.

STATISTICS OF TRANSPORTATION.

TABLE 6.—CAPITAL STOCK, FUNDED DEBT, INTEREST, AND DIVIDENDS, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		CAPITAL STOCK.				FUNDED DEBT.			
					Total issued and out-standing.	Dividends for the year.			Total issued and out-standing.	Interest for the year.		
						Rate.	Amount.			Rate.	Amount.	
			Months.	Days.			Declared.	Paid.			Accrued.	Paid.
NEW YORK—con.												
439	New York	Chambers Street and Grand Street Ferry R. R. Co.	12	-----	\$800,000.00	-----	-----	-----	-----	-----	-----	-----
440	New York	{Christopher and Tenth Street R. Co.	10	-----	650,000.00	7.00	\$45,500.00	\$45,500.00	{	7.00	\$7,000.00	\$7,000.00
441	New York	{Dry Dock, East Broadway and Battery R. R. Co.	12	-----	1,200,000.00	6.00	72,000.00	72,000.00	{	6.00	1,800.00	1,800.00
442	New York	{Eight Avenue R. R. Co.	12	-----	1,000,000.00	8.25	82,500.00	82,500.00	{	6.00	2,500.00	2,500.00
443	New York	{Forty-second Street and Grand Street Ferry R. R. Co.	12	-----	748,000.00	13.00	97,240.00	97,240.00	{	4.50	1,350.00	1,350.00
444	New York	{Forty-second Street, Manhattanville and Saint Nicholas Avenue R'y Co.	12	-----	2,500,000.00	-----	-----	-----	{	7.00	58,800.00	58,800.00
445	New York	{Harlem Bridge, Morrisania and Fordham R'y Co.	12	-----	350,000.00	-----	-----	-----	{	6.00	72,000.00	72,000.00
446	New York	{Houston, West Street and Pavonia Ferry R. R. Co.	12	-----	250,000.00	-----	-----	-----	{	6.00	60,000.00	60,000.00
448	New York	{Larchmont Horse R'y Co.	12	-----	25,000.00	-----	-----	-----	{	7.00	16,520.00	16,520.00
451	New York	{Mount Vernon and East Chester R'y Co.	12	-----	60,000.00	-----	-----	-----	{	6.00	4,500.00	4,500.00
452	New York	{New Rochelle and Pelham R'y Co.	12	-----	100,000.00	-----	-----	-----	{	6.00	-----	-----
454	New York	{New York and Harlem R. R. Co. (St. R'y Div.)	12	-----	10,000,000.00	2.50	250,000.00	250,000.00	{	7.00	(a)	-----
455	New York	{Ninth Avenue R. R. Co.	12	-----	761,800.00	-----	-----	-----	{	6.00	-----	-----
456	New York	{Pelham Park R. R. Co.	12	-----	50,000.00	4.00	2,000.00	2,000.00	{	6.00	1,890.00	1,890.00
457	New York	{Second Avenue R. R. Co.	12	-----	1,862,000.00	2.00	37,240.00	37,240.00	{	5.00	-----	-----
458	New York	{Sixth Avenue R. R. Co.	12	-----	1,500,000.00	8.00	120,000.00	120,000.00	{	5.00	-----	-----
461	New York	{Twenty-third Street R'y Co.	12	-----	600,000.00	10.00	60,000.00	60,000.00	{	7.00	35,000.00	35,000.00
462	Niagara Falls	{Niagara Falls and Suspension Bridge R'y Co.	12	-----	44,000.00	10.00	4,400.00	4,400.00	{	7.00	12,500.00	12,500.00
463	Ogdensburg	{Ogdensburg Street R'y Co.	12	-----	28,500.00	-----	-----	-----	{	5.00	7,500.00	7,500.00
464	Olean	{Olean Street R'y Co.	12	-----	10,000.00	-----	-----	-----	{	5.00	2,500.00	2,500.00
465	Oneida	{Oneida R'y Co.	12	-----	13,500.00	-----	-----	-----	{	5.00	500,000.00	500,000.00
466	Oneonta	{Oneonta Street R'y Co.	12	-----	20,000.00	-----	-----	-----	{	6.00	175,000.00	175,000.00
467	Oswego	{Oswego Street R'y Co.	12	-----	20,000.00	-----	-----	-----	{	5.00	2,000,000.00	2,000,000.00
469	Rochester	{Rochester R'y Co.	12	-----	4,000,000.00	-----	-----	-----	{	6.00	125,000.00	125,000.00
470	Rome	{Rome City Street R'y Co.	12	-----	50,000.00	-----	-----	-----	{	6.00	30,000.00	30,000.00
471	Schenectady	{Schenectady Street R'y Co.	12	-----	25,000.00	-----	-----	-----	{	6.00	1,800.00	1,800.00
472	Stillwater	{Stillwater and Mechanicsville Street R'y Co.	12	-----	10,700.00	5.00	535.00	-----	{	6.00	720.00	720.00
473	Syracuse	{Central City R'y Co.	12	-----	100,000.00	-----	-----	-----	{	6.00	2,135.42	2,135.42
474	Syracuse	{Fifth Ward R. R. Co.	12	-----	49,200.00	8.00	3,936.00	3,936.00	{	6.00	790.50	475.87
475	Syracuse	{Fourth Ward R'y Co.	12	-----	80,000.00	-----	-----	-----	{	7.00	296,500.00	296,500.00
476	Syracuse	{Genesee and Water Street R. R. Co.	12	-----	60,000.00	-----	-----	-----	{	12	50,000.00	50,000.00
477	Syracuse	{New Brighton and Onondaga Valley R. R. Co.	12	-----	16,000.00	-----	-----	-----	{	7.00	4,900.00	4,900.00
478	Syracuse	{People's R. R. Co. of Syracuse	12	-----	296,500.00	-----	-----	-----	{	6.00	20,000.00	20,000.00
479	Syracuse	{Syracuse and Geddes R'y Co.	12	-----	50,000.00	-----	-----	-----	{	6.00	1,200.00	1,200.00
480	Syracuse	{Syracuse and Onondaga R'y Co.	12	-----	70,000.00	7.00	4,900.00	4,900.00	{	6.00	1,200.00	1,200.00
482	Syracuse	{Woodlawn and Butternut Street R'y Co.	12	-----	15,000.00	-----	-----	-----	{	6.00	1,200.00	1,200.00
483	Troy	{Lansingburg and Cohoes R. R. Co.	12	-----	15,000.00	7.00	1,050.00	1,050.00	{	6.00	900.00	525.00
484	Troy	{Troy and Albion Horse R. R. Co.	12	-----	44,700.00	7.00	3,500.00	3,500.00	{	6.00	534.00	294.00
485	Troy	{Troy and Cohoes R. R. Co.	12	-----	50,000.00	7.00	3,500.00	3,500.00	{	6.00	534.00	294.00
487	Utica	{Utica and Mohawk R. R. Co.	12	-----	49,000.00	6.00	1,920.00	1,920.00	{	6.00	534.00	294.00
NORTH CAROLINA.												
490	Charlotte	{Charlotte Street R'y Co.	12	-----	20,000.00	-----	-----	-----	{	6.00	-----	-----
491	Raleigh	{Raleigh Street R'y Co.	12	-----	25,000.00	-----	-----	-----	{	3.00	750.00	750.00
OHIO.												
493	Bellaire	{Bellaire Street R'y Co.	12	-----	50,000.00	-----	-----	-----	{	6.00	1,800.00	-----
494	Berea	{Berea Street R. R. Co.	12	-----	15,000.00	7.00	1,050.00	1,050.00	{	6.00	72.00	72.00
505	Cleveland	{Woodland Avenue and West Side Street R. R. Co.	12	-----	1,100,000.00	6.00	66,000.00	66,000.00	{	6.00	-----	-----
506	Columbus	{Columbus Consolidated Street R. Co.	12	-----	1,000,000.00	4.50	45,000.00	45,000.00	{	5.00	30,000.00	-----
507	Columbus	{Glenwood and Greenlawn Street R'y Co.	12	-----	100,000.00	-----	-----	-----	{	6.00	1,140.00	29,745.27

a Paid by lessee of steam road.

b In addition to these items, this company pays interest as part rental on the following debt: Bleecker Street and Fulton Ferry R. R. Co., \$700,000; Broadway Surface R. R. Co., \$375,000.

c This item appears in "Balance sheet" as \$10,712.50.

STREET RAILWAYS.

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TABLE 6.—CAPITAL STOCK, FUNDED DEBT, INTEREST, AND DIVIDENDS, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		CAPITAL STOCK.				FUNDED DEBT.			
					Total issued and out-standing.	Dividends for the year.			Total issued and out-standing.	Interest for the year.		
						Rate.	Amount.			Rate.	Amount.	
			Declared.	Paid.			Accrued.	Paid.				
OHIO—cont'd.												
509	Dayton	Dayton Street R. R. Co	12		\$300,000.00	6.00	\$18,000.00	\$18,000.00				
510	Dayton	Fifth Street R. R. Co	12		375,000.00	6.00	18,000.00	18,000.00				
511	Dayton	Oakwood Street R'y Co	12		19,000.00							
512	Dayton	Wayne and Fifth Street R. R. Co ..	12		31,375.00							
513	Findlay	Blanchard Avenue Street R'y Co..	12		60,000.00							
514	Findlay	Findlay Street R'y Co	12		100,000.00				\$93,500.00	5.00	\$4,675.00	\$4,675.00
516	Findlay	Wyoming Place and Findlay Street R'y Co.	12		5,000.00							
517	Fremont	Fremont Street R'y Co			10,000.00							
518	Hamilton	Hamilton Street Railway and Electric Co.			12,000.00							
520	Lorain	Lorain Street R'y Co	12		7,500.00							
522	Middletown ..	Middletown and Madison Street R'y Co.	12		10,000.00	6.00	600.00	600.00				
524	Newark	Newark City R'y Co	12		100,000.00							
527	Sandusky	Sandusky Street R'y Co	12		65,000.00							
528	Springfield ..	Citizens' Street R. R. Co	12		200,000.00	1.00	2,000.00	2,000.00				
530	Tiffin	Tiffin Street R'y Co			50,000.00				40,000.00	6.00		
531	Toledo	Toledo Consolidated Street R'y Co.	12		1,500,000.00				1,500,000.00			
532	Youngstown ..	Youngstown Street R. R. Co	12		38,000.00							
533	Zanesville	Zanesville and McIntire Street R'y Co.	12		50,000.00	4.00	2,000.00	2,000.00				
OREGON.												
534	Albany	Albany Street R'y Co	6		25,000.00							
535	Astoria	Astoria Street R'y Co	12		36,800.00							
537	Portland	Multnomah Street R'y Co			100,000.00				100,000.00			
541	Portland	Portland Street R'y Co	12		60,000.00							
542	Portland	Transcontinental Street R'y Co..	12		150,000.00							
PENNSYLVANIA.												
545	Altoona	City Passenger R'y Co	12		6103,000.00	5.50	3,740.00	3,740.00				
546	Beaver Falls ..	Beaver Valley Street R'y Co	12		30,000.00	8.00	2,400.00	2,400.00	11,500.00	6.00	690.00	690.00
547	Bradford	Bradford and Kendall Street R'y Co.	12		12,000.00							
548	Chester	Chester Street R'y Co	12		100,000.00	11.00	11,000.00	11,000.00				
549	Easton	Easton, South Easton and West End Passenger R'y Co.	12		120,000.00							
553	Harrisburg	Harrisburg City Passenger R'y Co.	12		100,000.00	6.00	6,000.00	6,000.00				
554	Lancaster	Lancaster and Millersville R. R. Co.	12		40,000.00	12.00	4,800.00	4,800.00				
555	Lancaster	Lancaster City Street R'y Co	12		63,900.00							
556	Lancaster	West End Street R'y Co	12		6,200.00		483.00	483.00				
558	Norristown	Citizens' Passenger R'y Co	12		49,520.00							
559	Norristown	Norristown Passenger R'y Co	12		44,415.15				150,000.00			
560	Philadelphia ..	Catharine and Bainbridge Street R. R. Co.	4		150,000.00							
561	Philadelphia ..	Citizens' Passenger R'y Co	12		500,000.00	28.00	140,000.00	140,000.00	350,000.00	5.00	17,500.00	17,500.00
562	Philadelphia ..	Continental Passenger R'y Co	12		580,000.00		120,000.00	120,000.00	200,000.00	7.00	14,000.00	14,000.00
563	Philadelphia ..	Empire Passenger R'y Co	12		600,000.00				124,500.00	6.00	7,470.00	7,434.75
565	Philadelphia ..	{Hestonville, Mantua and Fair- mount Passenger R. R. Co.}	12		299,381.36				300,000.00	6.00	18,000.00	18,210.00
567	Philadelphia ..	{Lombard and South Streets Pas- senger R'y Co.}	12		374,842.50	16.00	80,000.00	80,000.00	75,000.00	6.00	4,500.00	4,500.00
568	Philadelphia ..	{Manayunk and Roxboro Inclined Plane and R'y Co.}	12		58,475.00				97,939.99	5.00	4,900.00	4,842.00
569	Philadelphia ..	People's Passenger R'y Co	12		2,250,000.00				156,400.00			
570	Philadelphia ..	{Philadelphia and Grays Ferry Passenger R'y Co.}	12		309,207.00	6.00 5.00	18,525.00 15,437.50	18,525.00 15,437.50	18,041.10	5.00	100.00	100.00
571	Philadelphia ..	{Philadelphia City Passenger R'y Co.}	12		1,000,000.00	14.50	145,000.00	145,000.00	200,000.00	5.00	10,000.00	10,000.00
573	Philadelphia ..	Ridge Avenue Passenger R'y Co ..	12		420,000.00	35.71	150,000.00	150,000.00	100,000.00	7.00	7,000.00	7,000.00
574	Philadelphia ..	Second and Third Streets Passen- ger R'y Co.	12		1,060,200.00	19.00	201,438.00	201,389.50				
575	Philadelphia ..	Seventeenth and Nineteenth Streets Passenger R'y Co.	12		250,000.00	6.00	15,000.00	15,000.00	100,000.00	5.00	5,000.00	5,000.00
576	Philadelphia ..	Thirteenth and Fifteenth Streets Passenger R'y Co.	12		1,000,000.00	19.00	190,000.00	190,000.00	100,000.00	7.00	7,000.00	7,000.00

a On \$300,000 capital; increased \$75,000 in June, 1890.

b Only \$80,050 paid in.

c On \$68,000; capital increased \$35,000 August 26, 1889.

d No explanation of seeming discrepancy between rate of dividends and amount paid.

e \$750,000 of this is preferred stock; liability on account of which is denied. The company carries the whole stock on their balance sheet at \$860,000.

f Upon which \$475,000 has been paid.

g Only \$334,529.44 paid in.

STATISTICS OF TRANSPORTATION.

TABLE 6.—CAPITAL STOCK, FUNDED DEBT, INTEREST, AND DIVIDENDS, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		CAPITAL STOCK.				FUNDED DEBT.					
					Total issued and out-standing.	Dividends for the year.		Total issued and out-standing.	Interest for the year.					
						Rate.	Amount.		Rate.	Amount.				
			Months.	Days.			Declared.			Paid.	Accrued.	Paid.		
PENNSYLVANIA—continued.														
587	Pittsburg	Pittsburg, Allegheny and Manchester Passenger R'y Co.	12		\$350,000.00	15.00	\$52,500.00	\$52,500.00	\$100,000.00 100,000.00 75,000.00	8.00 6.00 7.30	\$8,000.00 6,000.00	\$8,000.00 6,000.00		
588	Pittsburg	Pittsburg and Birmingham Passenger R. R. Co.	4	18	200,000.00	10.00 20.00	20,000.00 40,000.00	20,000.00 40,000.00						
589	Pittsburg	Pittsburg and Birmingham Traction Co.	7	12	3,000,000.00				1,500,000.00	5.00		27,358.25		
590	Pittsburg	Pittsburg and West End Passenger R'y Co.	12		200,000.00	8.00	16,000.00	16,000.00	75,000.00	5.00	3,750.00	3,750.00		
593	Pittsburg	Pittsburg Union Passenger R'y Co.	12		82,755.00				100,000.00	5.00	5,000.00	5,000.00		
596	Pittsburg	South Side Passenger R'y Co.			38,400.00				19,000.00	5.00	950.00	475.00		
598	Pittston	Pittston Street Car Co.	12		10,000.00	4.00	400.00	400.00						
601	Reading	Reading City Passenger R'y Co.	12		200,000.00	6.00	12,000.00	12,000.00	12,000.00 100,000.00 12,800.00	5.00 5.00	600.00 5,000.00	600.00 5,000.00		
603	Stroudsburg	Stroudsburg Passenger R'y Co.	12		25,600.00	1.00	256.00	256.00						
605	Wilkesbarre	Coalville Passenger R. R. Co.	12		62,775.00				12,000.00	6.00	720.00	480.00		
606	Wilkesbarre	Wilkesbarre and Kingston Passenger R'y Co.	12		100,000.00	6.00	6,000.00	6,000.00						
609	Williamsport	Williamsport Passenger R'y Co.	12		75,000.00	6.00	4,500.00	4,500.00						
610	York	York Street R'y Co.	12		50,000.00	3.00	1,500.00	1,500.00						
RHODE ISLAND.														
612	Pawtucket	Pawtucket Street R'y Co.	12		200,000.00									
614	Providence	Union R. R. Co.	12		1,500,000.00	8.00	120,000.00	120,000.00						
615	Woonsocket	Woonsocket Street R'y Co.	12		100,000.00				59,000.00	5.00	2,950.00	1,475.00		
SOUTH CAROLINA.														
616	Charleston	Charleston City R'y Co.	12		100,000.00	6.00	6,000.00	6,000.00	100,000.00	6.00	6,000.00	6,000.00		
617	Charleston	Enterprise R. R. Co.	12		250,000.00				44,000.00	5.00	2,200.00	2,200.00		
618	Charleston	Middle Street Sullivan's Island R'y Co.	12		15,000.00	5.00	750.00	750.00						
619	Greenville	Street R'y Co. of the City of Greenville.	12		10,000.00									
620	Orangeburg	Orangeburg City Street R'y Co.	12		10,000.00	10.00	1,000.00							
SOUTH DAKOTA.														
622	Pierre	Pierre City R'y Co.	12		25,000.00									
623	Rapid city	Rapid City Street R. R. Co.	12		5,000.00									
TENNESSEE.														
630	Chattanooga	City Street R. R. Co.	12		600,000.00				300,000.00	6.00	18,000.00	18,000.00		
631	Clarksville	Clarksville Street R'y Co.	12		6,300.00	10.00	630.00	630.00						
632	Cleveland	Cleveland Street R'y Co.	12		4,500.00									
633	Columbia	Columbia Street R'y Co.	12		50,000.00				25,000.00	6.00				
634	Jackson	Jackson and Suburban Street R. R.	12		43,500.00									
636	Knoxville	West End Street R. R. Co.	12		13,250.00									
TEXAS.														
642	Corsicana	Corsicana Street R'y Co.			27,000.00				25,000.00	6.00				
644	El Paso	El Paso Street R'y Co.	12		150,000.00									
645	El Paso	Santa Fe Street R'y Co.	12		632,200.00	5.43	1,749.28							
648	Gainesville	Gainesville Street R'y Co.	12		40,000.00				40,000.00 100,000.00 100,000.00 20,000.00 10,000.00	7.00 6.00 6.00 6.00 7.00	2,800.00 3,000.00 3,000.00 3,000.00 9,940.00	2,800.00 3,000.00 3,000.00 3,000.00 9,940.00		
649	Galveston	Galveston City R. R. Co.	6		317,723.50									
650	Houston	Bayou City Street R'y Co.			100,000.00									
651	Houston	Houston City Street R'y Co.	12		100,000.00				142,000.00	6.00				
653	Longview	Longview and Junction R'y Co.	12		4,400.00									
654	Marshall	Marshall Street Railway and Transportation Co.	12		7,500.00									
655	Paris	Paris R'y Co.	12		40,000.00	8.00	3,200.00							
656	San Antonio	Cross Town R. R. Co.	12		9,875.00									
659	Victoria	Victoria Street Railway and Improvement Co.			10,000.00				4,217.40	8.00				
660	Waco	Waco Street R'y Co.	12		80,000.00	4.00	3,200.00	3,200.00						
661	Waxahachie	Waxahachie Street R'y Co.	12		1,200.00				10,000.00	5.00	250.00	250.00		
662	Weatherford	Weatherford City and Suburban R. R. Co.	1		100,000.00									
VERMONT.														
664	Burlington	Winooski and Burlington Horse R. R. Co.	12		40,000.00	4.00	1,600.00	1,600.00	15,000.00	6.00	900.00	900.00		
665	Rutland	Rutland Street R'y Co.	12		50,000.00				28,000.00	6.00	1,680.00	1,680.00		
VIRGINIA.														
666	Charlottesville	Charlottesville and University Street R'y Co.	12		10,000.00	25.00	2,500.00	2,500.00						
668	Lynchburg	Lynchburg Street R'y Co.	12		21,433.58									
669	Norfolk	Berkley Street R'y Co.	1	17	6,312.07									
670	Norfolk	Norfolk City R. R. Co.	12		100,000.00				125,000.00	6.00	7,500.00	7,500.00		

a Only \$110,060.14 paid up.

b This represents paid-up stock. The entry \$33,310.13 in "Balance sheet" includes stock not paid up.

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RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		CAPITAL STOCK.				FUNDED DEBT.			
					Total issued and out-standing.	Dividends for the year.			Total issued and out-standing.	Interest for the year.		
						Rate.	Amount.			Rate.	Amount.	
							Declared.	Paid.			Accrued.	Paid.
			Months.	Days.								
	VIRGINIA—CON.											
671	Norfolk.....	Suburban and City Railway and Improvement Co.	12	-----	\$50,000.00	-----	-----	-----	\$67,500.00	6.00	\$4,050.00	-----
672	Portsmouth....	Portsmouth Street R'y Co	12	-----	50,000.00	-----	-----	-----	50,000.00	6.00	3,000.00	\$3,000.00
673	Richmond	Richmond and Manchester R'y Co.	12	-----	42,300.00	10.00	\$4,230.00	\$4,230.00	-----	-----	-----	-----
	WASHINGTON.											
684	Spokane	Spokane Street R'y Co.....	6	-----	50,000.00	-----	-----	-----	-----	-----	-----	-----
685	Walla Walla....	Walla Walla Street Railway and Investment Co.	12	-----	70,000.00	-----	-----	-----	-----	-----	-----	-----
	WEST VIRGINIA.											
687	Parkersburg...	Park City Street R'y.....	12	-----	12,230.00	-----	-----	-----	12,150.00	6.00	729.00	729.00
	WISCONSIN.											
693	Fond du Lac....	Fond du Lac Street R'y Co	12	-----	29,000.00	-----	-----	-----	4,000.00	6.00	240.00	240.00
694	Lacrosse	Lacrosse and Onalaska Street R'y Co.	1	-----	30,000.00	-----	-----	-----	-----	-----	-----	-----
695	Lacrosse	Lacrosse City R'y Co.	12	-----	200,000.00	4.00	8,000.00	8,000.00	-----	-----	-----	-----
699	Milwaukee	Milwaukee City R. R. Co	12	-----	1,500,000.00	-----	24,000.00	24,000.00	1,000,000.00	5.00	50,000.00	50,000.00
702	Oshkosh	Oshkosh Street R. R. Co	12	-----	75,000.00	-----	1,655.50	1,655.50	30,000.00	6.00	1,800.00	1,800.00
703	Racine	Belle City Street R'y Co	12	-----	100,000.00	6.00	6,000.00	6,000.00	-----	-----	-----	-----
	WYOMING.											
706	Cheyenne	Cheyenne Street R. R. Co	6	-----	80,300.00	-----	-----	-----	-----	-----	-----	-----

TABLE 6.—CAPITAL STOCK, FUNDED DEBT, INTEREST, AND DIVIDENDS, FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		CAPITAL STOCK.			FUNDED DEBT.				
					Total issued and out-standing.	Dividends for the year.		Total issued and out-standing.	Interest for the year.			
						Rate.	Amount.		Rate.	Amount.		
			Declared.	Paid.			Accrued.			Paid.		
			Months.	Days.								
CONNECTICUT.												
87	Birmingham	Derby Street R'y Co	12		\$50,000.00				\$5,000.00 3,300.00	5.00 5.00	\$125.00 165.00	\$125.00 165.00
DELAWARE.												
104	Wilmington	Wilmington City R'y Co	6		\$45,500.00	5.00	\$1,137.50	\$1,137.50	40,000.00	5.00		1,000.00
DIST. COLUMBIA.												
109	Washington	Eckington and Soldiers' Home R'y Co.	12		\$352,000.00							
110	Washington	Georgetown and Tennallytown R'y Co.	4	6	200,000.00							
GEORGIA.												
121	Atlanta	Atlanta and Edgewood Street R. Co.	10	9	25,700.00							
123	Atlanta	Fulton County Street R. R. Co.	12		51,775.42				246,000.00	6.00	9,690.00	6,000.00
126	Augusta	Augusta R'y Co.			300,000.00							
ILLINOIS.												
150	Decatur	Citizens' Electric Street R'y Co.	12		41,200.00				18,500.00	6.00	555.00	555.00
151	East Saint Louis	Saint Louis and East Saint Louis Electric R'y Co.	12		250,000.00	7.00	17,500.00	17,500.00	75,000.00	6.00	4,500.00	4,500.00
156	Moline	Moline Central Street R'y Co.	8	15	37,000.00				25,000.00	6.00	750.00	750.00
158	Peoria	Central R'y Co.	12		500,000.00				200,000.00	6.00	12,000.00	12,000.00
INDIANA.												
166	Elkhart	Citizens' Street R'y Co.	12		31,500.00				11,000.00			
174	Lafayette	Lafayette Street R'y Co.	12		150,000.00				100,000.00	6.00	6,000.00	3,421.00
181	Richmond	Richmond City R'y Co.	12		200,000.00				150,000.00	6.00		
IOWA.												
191	Council Bluffs	{Omaha and Council Bluffs Railway} and Bridge Co.	12		1,500,000.00	6.00	90,000.00	45,000.00	400,000.00	6.00	24,000.00	24,000.00
193	Davenport	Davenport Central R'y Co.	12		75,000.00				250,000.00	5.00	12,500.00	12,500.00
202	Ottumwa	Ottumwa Railway, Electric and Steam Co.	7	3	150,000.00				50,000.00	6.00	3,000.00	3,000.00
205	Sioux city	Sioux City Street R'y Co.	1		300,000.00				400,000.00			
KANSAS.												
222	Topeka	Topeka Rapid Transit R'y Co.	12		\$213,000.00				\$224,000.00	6.00	13,440.00	13,440.00
MARYLAND.												
247	Baltimore	North Avenue R'y Co. of Baltimore City.	1	14	20,000.00							
MASSACHUSETTS.												
249	Attleboro	{Attleboro, North Attleboro and} Wrentham Street R'y Co.	6		60,000.00	4.00 6.00	2,400.00 3,600.00	2,400.00 3,600.00	50,000.00	5.00	1,041.65	1,041.65
250	Beverly	Beverly and Danvers Street R'y Co.	11		12,000.00							
252	Boston	Boston and Revere Electric Street R'y Co.	12		50,000.00				25,000.00			
257	Boston	Quincy and Boston Street R'y Co.	12		50,000.00							
261	Brockton	East Side Street R'y Co.	12		45,000.00							
270	Marlboro	Marlboro Street R'y Co.	12		50,000.00	1.00	500.00	500.00	50,000.00	6.00	2,250.00	2,250.00
274	North Adams	Hoosac Valley Street R'y Co.	12		50,000.00				50,000.00	6.00	3,000.00	
278	Plymouth	Plymouth and Kingston Street R'y Co.	12		35,000.00				35,000.00	5.00	875.00	875.00
MICHIGAN.												
283	Adrian	Adrian City Electric Belt R'y Co.	9		50,000.00				36,500.00	6.00	990.00	990.00
284	Bay city	West Bay City Street R'y Co.	8		100,000.00							
287	Detroit	East Detroit and Grossepoint R'y Co.	12		33,500.00				30,000.00	6.00	1,800.00	1,800.00
289	Detroit	Highland Park R'y Co.	12		50,000.00				25,000.00	6.00	300.00	
293	Muskegon	Muskegon R'y Co.			58,749.99							
294	Port Huron	Gratiot Electric R'y Co.	12		5,000.00				44,000.00	7.00	3,080.00	3,080.00
297	Sault Ste. Marie	Sault Ste. Marie Street R'y Co.	12		25,300.00							
MINNESOTA.												
305	Stillwater	Stillwater Street R'y Co.	12		100,000.00				60,000.00	6.00	3,600.00	3,600.00
MISSOURI.												
319	Kansas city	North East Street R'y Co.	9	24	260,000.00				260,000.00	6.00	7,800.00	7,800.00
323	Kansas city	Vine Street Motor R'y Co.	6		125,000.00				100,000.00	6.00	3,000.00	3,000.00
325	Saint Joseph	Wyatt Park R'y Co.	12		110,300.00				100,000.00	6.00	6,000.00	6,000.00
The total capital as reported in "Balance sheet" \$162,652, exceeded by \$18,652 the sum of \$181,000.												

a The total capital as reported in "Balance sheet", \$168,653, exceeds by \$18,653 the sum of the two items of capital stock reported in this table under "Railways operated by animal power" and "Electric Railways", respectively.

b \$281,600 actually paid in.

c This represents the amount issued. The remainder of the \$600,000 entered in "Balance sheet" is in the treasury of the company.

d This represents the total amount placed. \$118,000 remains in treasury.

STREET RAILWAYS.

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TABLE C.—CAPITAL STOCK, FUNDED DEBT, INTEREST, AND DIVIDENDS, FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		CAPITAL STOCK.				FUNDED DEBT.			
					Total issued and out-standing.	Dividends for the year.			Total issued and out-standing.	Interest for the year.		
						Rate.	Amount.			Rate.	Amount.	
			Months.	Days.	Declared.		Paid.	Accrued.	Paid.			
NEW JERSEY.												
368	Asbury Park...	Seashore Electric R'y Co.....			\$200,000.00				\$100,000.00	6.00		
NEW YORK.												
406	Brooklyn.....	Jamaica and Brooklyn Road Co....	12		197,480.00				325,000.00	5.00	\$8,125.00	
425	Ithaca.....	Ithaca Street R. R.....	12		25,000.00				20,000.00	6.00	1,200.00	\$1,200.00
468	Rochester.....	Rochester Electric R'y Co.....	11	28	200,000.00							
481	Syracuse.....	Third Ward R'y Co.....	12		50,000.00				100,000.00	6.00	6,000.00	5,685.00
488	Utica.....	Utica Belt Line Street R. R. Co....	4		150,000.00				500,000.00	5.00	6,666.66	2,500.00
									50,000.00	6.00	250.00	
NORTH CAROLINA.												
489	Asheville.....	Asheville Street R'y Co.....	12		100,000.00				100,000.00	6.00	1,500.00	1,500.00
OHIO.												
492	Akron.....	Akron Street R. R. Co.....	12		200,000.00				185,000.00	6.00	11,100.00	11,100.00
495	Canton.....	Canton Street R'y Co. and Lake-side Street R. R. Co.	9	4	300,000.00				200,000.00	6.00	2,000.00	
490	Cincinnati.....	Cincinnati Incline Plane R'y Co....	12		499,950.00				125,000.00	7.00	8,750.00	8,750.00
500	Cleveland.....	Broadway and Newburg Street R. R. Co.	12		650,000.00	6.00	\$23,431.76	\$23,431.76	250,000.00	6.00	15,000.00	15,000.00
503	Cleveland.....	East Cleveland R. R. Co.....	12		51,500,000.00		75,000.00	52,498.50	500,000.00	5.00	25,000.00	25,000.00
504	Cleveland.....	Lake View and East Cleveland Street R'y Co.	10	24	25,000.00							
508	Dayton.....	Dayton and Soldiers' Home R. R. Co.	2	24	100,000.00				65,000.00	5.00	1,625.00	
519	Lima.....	Lima Street Railway, Motor and Power Co.	12		50,000.00							
521	Mansfield.....	Mansfield Electric Street R'y Co....	12		75,000.00				75,000.00	6.00		
523	Newark.....	Newark and Granville Electric Street R'y Co.	6	8	65,000.00				60,000.00			
525	Piqua.....	Piqua Street R'y Co.....	5	17	75,000.00							
526	Salem.....	Salem Electric R'y Co.....	1	7	100,000.00				50,000.00			
529	Steubenville.....	Steubenville Street R'y Co.....	12		50,000.00							
OREGON.												
536	Portland.....	Metropolitan R'y Co.....	6		201,800.00				62,000.00	6.00	1,860.00	1,860.00
543	Salem.....	Capital City R'y Co.....	1		50,000.00							
PENNSYLVANIA.												
550	Easton.....	Pennsylvania Motor Co.....	12		80,000.00				40,000.00	4.00	1,600.00	258.00
551	Erie.....	Erie Electric Motor Co.....	12		400,000.00				200,000.00	6.00	12,000.00	12,000.00
552	Harrisburg.....	East Harrisburg Passenger R'y Co.	12		125,000.00		11,250.00	11,250.00				
566	Philadelphia.....	Lehigh Avenue R'y Co.....	2		200,000.00							
582	Pittsburg.....	Federal Street and Pleasant Valley Passenger R'y Co.	6		1,300,000.00				75,000.00	6.00	2,250.00	2,250.00
									438,000.00	5.00	11,250.00	11,250.00
591	Pittsburg.....	Pittsburg, Knoxville and Saint Clair Street R'y Co.	12		60,000.00				60,000.00	6.00	614,400.00	
595	Pittsburg.....	Second Avenue Passenger R'y Co..	3	26	300,000.00				30,000.00	6.00		
597	Pittsburg.....	Suburban Rapid Transit Street R'y Co.	12		65,000.00				120,000.00	5.00		
599	Reading.....	East Reading R. R. Co.....	12		69,900.00	6.00	3,347.00	c1,680.00				
602	Scranton.....	People's Street R'y Co.....	12		400,000.00	4.00	16,000.00	16,000.00	200,000.00	6.00	12,000.00	12,000.00
604	Sunbury.....	Sunbury and Northumberland Street R'y Co.			d55,000.00				e27,500.00	6.00	1,497.00	672.00
607	Wilkesbarre.....	Wilkesbarre and Suburban Street R'y Co.	12		91,650.00							
608	Wilkesbarre.....	Wilkesbarre and West Side R'y Co.	6	22	50,000.00				35,000.00	5.00		375.00
RHODE ISLAND.												
611	Newport.....	Newport Street R'y Co.....	12		100,000.00	7.00	f2,100.00	2,100.00	25,000.00	5.00		
SOUTH DAKOTA.												
625	Sioux Falls.....	South Dakota Rapid Transit R'y Co.			61,500.00							
TENNESSEE.												
629	Chattanooga...	Chattanooga Electric Street R. R. Co.	12		100,000.00				225,000.00	6.00	9,000.00	9,000.00
641	Nashville.....	United Electric R'y.....	12		1,000,000.00				2,500,000.00			72,000.00

a Capital increased during the year \$1,000,000, of which one-half has been issued and paid for.

b Apparently represents total accrued and unpaid to date.

c First dividend only paid during this year.

d Carried in "Balance sheet" at \$75,000. The discrepancy is not satisfactorily accounted for.

e The item \$65,000 entered as funded debt in "Balance sheet" appears to include liabilities not properly classified in this table.

f 7 per cent on \$30,000.

TABLE 6.—CAPITAL STOCK, FUNDED DEBT, INTEREST, AND DIVIDENDS, FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		CAPITAL STOCK.				FUNDED DEBT.			
					Total issued and out-standing.	Dividends for the year.			Total issued and out-standing.	Interest for the year.		
						Rate.	Amount.			Rate.	Amount.	
			Declared.	Paid.			Accrued.	Paid.				
			Months.	Days.								
	TEXAS.											
646	Fort Worth . . .	Fort Worth Land and Street R'y Co.	1	17	\$400,000.00							
657	Sherman	College Park Electric Belt Line . .	3		15,000.00							
	UTAH.											
663	Salt Lake city .	Salt Lake City R. R. Co	9	14	218,637.68							
	VIRGINIA.											
667	Danville	Danville Street Car Co	12		50,000.00	8.00	\$4,000.00	\$2,000.00				
	WASHINGTON.											
680	Seattle	Seattle Electric Railway and Power Co.	12		240,000.00	6.00	9,830.46	9,830.46	\$400,000.00	6.00	\$3,825.00	
681	Spokane	Ross Park Street R'y Co	7	14	85,000.00				40,000.00	6.00	1,200.00	
	WISCONSIN.											
691	Appleton	Appleton Electric Street R'y Co . .	12		41,500.00				16,000.00	8.00	1,280.00	\$1,280.00
									1,000.00	7.00	70.00	70.00
692	Eau Claire	Eau Claire Street Railway, Light and Power Co.			100,000.00				7,000.00	6.00	420.00	420.00
									400,000.00	6.00		
700	Milwaukee	Milwaukee Electric R'y Co			500,000.00							
701	Milwaukee	West Side R. R. Co			300,000.00				500,000.00	5.00		
705	Superior	Douglas County Street R'y Co . . .	4		40,000.00				50,000.00	5.00		

STREET RAILWAYS.

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TABLE 6.—CAPITAL STOCK, FUNDED DEBT, INTEREST, AND DIVIDENDS, FOR THE CENSUS YEAR—Continued.

CABLE RAILWAYS.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		CAPITAL STOCK.				FUNDED DEBT.				
					Total issued and out-standing.	Dividends for the year.			Total issued and out-standing.	Interest for the year.			
						Rate.	Amount.			Rate.	Amount.		
			Declared.	Paid.			Accrued.	Paid.					
			Months.	Days.									
CALIFORNIA.													
33	Los Angeles	Second Street Cable R. R. Co	3	11	\$98,413.93				\$10,000.00		\$916.67		
34	Los Angeles	Temple Street Cable R'y Co	12		208,000.00				13,000.00		1,191.67		
58	San Francisco	California Street Cable R. R. Co	12		1,000,000.00	6.00	\$60,000.00	\$60,000.00	100,000.00	7.00	7,000.00	\$7,000.00	
68	San Francisco	Sutter Street R'y Co	12		2,000,000.00	5.00	100,000.00	100,000.00	675,000.00	5.00	34,419.16		32,440.00
COLORADO.													
81	Denver	Denver City Cable R'y Co	12		2,277,000.00				3,313,000.00	6.00	99,390.00		99,390.00
IOWA.													
197	Dubuque	Eleventh Street Elevated R. R	12		6,000.00								
MICHIGAN.													
291	Grand Rapids	Valley City Street and Cable R'y Co.	12		177,940.60				503,500.00	5.00	6,670.85		6,670.85
MISSOURI.													
317	Kansas city	Kansas City Cable R'y Co	12		1,572,900.00	3.00	47,187.00	47,187.00	1,050,000.00	5.00	52,500.00		39,375.00
337	Saint Louis	People's R'y Co	2		300,000.00				300,000.00	6.00	18,000.00		
OHIO.													
499	Cincinnati	Mount Auburn Cable R'y Co	12		300,000.00				200,000.00	5.00	10,000.00		10,000.00
OREGON.													
540	Portland	Portland Cable R'y Co	12		284,000.00				159,000.00	6.00	9,540.00		9,540.00
PENNSYLVANIA.													
544	Allegheny	Troy Hill Inclined Plane and Bridge Co.	12		200,000.00				100,000.00	6.00	6,000.00		6,000.00
577	Philadelphia	Union Passenger R'y Co	12		925,000.00		285,000.00	285,000.00	750,000.00				
578	Philadelphia	West Philadelphia Passenger R'y Co.	12		750,000.00	20.00	150,000.00	150,000.00	246,000.00		(b)		
581	Pittsburg	Duquesne Inclined Plane Co	12		50,000.00	6.00	3,000.00		750,000.00				
583	Pittsburg	Fort Pitt Inclined Plane R'y Co.	12		60,000.00				30,000.00	6.00	1,800.00		1,800.00
584	Pittsburg	Monongahela Inclined Plane Co.	12		140,000.00	6.00	8,400.00	8,400.00	65,000.00	5.00	3,250.00		3,957.50
586	Pittsburg	Penn Inclined Plane Co	12		250,000.00				125,000.00				
592	Pittsburg	Pittsburg Traction Co.	12		2,500,000.00				750,000.00	5.00	37,500.00		37,500.00
594	Pittsburg	Saint Clair Inclined Plane Co	12		150,000.00				7,000.00	6.00	420.00		420.00
WASHINGTON.													
677	Seattle	Front Street Cable R'y Co.	12		600,000.00				300,000.00	6.00	18,000.00		18,000.00
678	Seattle	Lake Washington Cable R. R. Co.	10		250,000.00								
679	Seattle	Madison Street Cable R'y Co	2	25	750,000.00								
683	Spokane	Spokane Cable R'y Co.	6		19,000.00				150,000.00	6.00	4,500.00		4,500.00

a \$2,100 additional appears in "Balance sheet" which is unissued.
 b Paid by lessee.

c Represents amount outstanding. In "Balance sheet" the total issue of \$100,000 is entered.
 d Only \$341,500 paid up.

TABLE 6.—CAPITAL STOCK, FUNDED DEBT, INTEREST, AND DIVIDENDS, FOR THE CENSUS YEAR—Continued.

STEAM PASSENGER RAILWAYS.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		CAPITAL STOCK.				FUNDED DEBT.					
					Total issued and out-standing.	Dividends for the year.			Total issued and out-standing.	Interest for the year.				
						Rate.	Amount.			Rate.	Amount.			
			Months.	Days.	Declared.		Paid.	Accrued.	Paid.					
ALABAMA.														
4	Birmingham	East Birmingham Land and R. R. Co.	12		\$1,022,800.00				\$50,000.00	8.00	\$4,000.00	\$4,000.00		
5	Birmingham	Highland Avenue and Belt R. R. Co.	12		1,000,000.00									
6	Birmingham	North Birmingham Street R. R. Co.	12		65,000.00									
12	Sheffield	Sheffield Street R'y Co	12		50,000.00									
ARKANSAS.														
19	Little Rock	City Electric Street R'y Co	12		42,250.00									
CALIFORNIA.														
26	Los Angeles	Cohuenga Valley R. R. Co	2	15					50,000.00		6,000.00			
32	Los Angeles	San Gabriel Valley Rapid Transit R'y	1		169,600.80				27,000.00					
46	Pomona	Pomona Street R. R. Co	12		20,060.00									
54	San Bernardino	San Bernardino and Redlands R. R. Co.	12		200,000.00									
55	San Bernardino	San Bernardino, Arrowhead and Waterman R. R. Co.	12		95,000.00									
COLORADO.														
80	Denver	Denver and Berkeley Park Rapid Transit Co.	12		60,000.00				33,000.00	6.00				
FLORIDA.														
119	Tampa	Tampa Street R'y Co	12		40,000.00				10,000.00	12.00	1,200.00	1,200.00		
GEORGIA.														
130	Lithia Springs	Salt Springs and Bowden Lithia R. R.	4		10,000.00									
131	Milledgeville	Milledgeville and Asylum Dummy R. R. Co.	12		25,200.00	6.00	\$1,512.00	\$1,512.00	15,000.00	7.00	1,050.00	1,050.00		
ILLINOIS.														
137	Alton	Alton Improvement Association	12		25,000.00				25,000.00	5.00	1,250.00	1,250.00		
INDIANA.														
168	Evansville	Evansville, Suburban and Newburg R'y Co.	12		50,000.00									
179	Muncie	Muncie Street R'y Co	8		150,000.00									
IOWA.														
188	Cedar Rapids	Cedar Rapids and Marion R'y	12		66,700.00				50,000.00	6.00	3,000.00	3,000.00		
190	Council Bluffs	Lake Manawa R'y Co	12		100,000.00									
194	Des Moines	Des Moines Belt Line R'y Co.	12		38,000.00				52,000.00	7.00	3,640.00	3,640.00		
204	Sioux city	Sioux City and Highland Park R'y Co.	12		125,000.00				30,000.00	6.00	1,800.00	1,800.00		
KANSAS.														
220	Topeka	Topeka Belt R'y Co	12		334,500.00				500,000.00	6.00				
LOUISIANA.														
236	New Orleans	New Orleans, Spanish Fort and Lake R. R. Co.	12		200,000.00				300,000.00					
MASSACHUSETTS.														
276	Onset	Onset Street R'y Co	12		13,520.00									
MINNESOTA.														
301	Minneapolis	Minneapolis, Lyndale and Minnetonka R'y Co.	12		385,000.00				620,000.00	5.00	31,000.00	31,000.00		
MISSOURI.														
314	Kansas city	East Fifth Street R'y Co	12		100,000.00									
316	Kansas city	Kansas City and Independence Rapid Transit R'y.	12		1,000,000.00				450,000.00	5.00	22,500.00	11,250.00		
MONTANA.														
347	Helena	Helena, Hot Springs and Smelter R. R. Co.			150,000.00				130,000.00	6.00	4,000.00			
NEW YORK.														
399	Brooklyn	Brooklyn Elevated R. R. Co	12		5,000,000.00				3,500,000.00	6.00	209,940.00	209,940.00		
403	Brooklyn	Fulton Elevated R. R. Co	12		300,000.00				1,250,000.00	5.00	62,450.00	62,450.00		
407	Brooklyn	Kings County Elevated R'y Co.	12		3,250,000.00				1,621,000.00	5.00	(c)			
411	Brooklyn	Sea View R. R. Co	12		190,752.54				3,377,000.00	5.00	170,850.00	170,325.00		
447	New York	Jerome Park R'y Co	12		8,000.00				3,377,000.00	5.00				
449	New York	Manhattan R'y Co	12		25,891,980.00	6.00	1,560,000.00	1,553,497.50	388,500.00	6.00	1,650.00	1,650.00		
									27,500.00					
									100,000.00	6.00	6,000.00			
									5,000,000.00	4.00	48,800.00			
									8,500,000.00	7.00	595,000.00	595,000.00		
									1,000,000.00	5.00	50,000.00	50,000.00		
450	New York	Metropolitan Elevated R'y Co.	12		6,500,000.00				10,818,000.00	6.00				
459	New York	Suburban Rapid Transit Co.	12		641,865.00				4,000,000.00	6.00				
									(d)					

a Only 66,500 paid up.
 b Bonds not sold.

c Paid by lessee.
 d Bonds will be delivered

STREET RAILWAYS.

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TABLE 6.—CAPITAL STOCK, FUNDED DEBT, INTEREST, AND DIVIDENDS, FOR THE CENSUS YEAR—Continued.

STEAM PASSENGER RAILWAYS—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		CAPITAL STOCK.			FUNDED DEBT.			
					Total issued and out-standing.	Dividends for the year.		Total issued and out-standing.	Interest for the year.		
						Rate.	Amount.		Rate.	Amount.	
			Months.	Days.			Declared.	Paid.		Accrued.	Paid.
	OREGON.										
538	Portland	Mount Tabor Street R. R. Co.	12		\$40,000.00						
539	Portland	Portland and Vancouver R'y Co.	12		150,000.00				\$100,000.00	6.00	\$6,000.00
	PENNSYLVANIA.										
600	Reading	Mount Penn Gravity R. R. Co.	12		100,000.00						
	TENNESSEE.										
635	Knoxville	Fountain Head R. R. Co.			50,000.00						
639	Nashville	Nashville and West Nashville R. R. Co.	6		80,000.00				81,000.00	6.00	4,860.00
640	Nashville	Overland R'y Co.	12		100,000.00				100,000.00	6.00	6,000.00
	WASHINGTON.										
682	Spokane	Spokane and Montrose Motor R. R. Co.	12		50,000.00						
	WEST VIRGINIA.										
689	Wheeling	Wheeling and Elm Grove R. R.	12		67,800.00				69,700.00	6.00	4,182.00
	WISCONSIN.										
698	Milwaukee	Milwaukee and Whitefish Bay R'y Co.	7		60,000.00						

TABLE 6.—CAPITAL STOCK, FUNDED DEBT, INTEREST, AND DIVIDENDS, FOR THE CENSUS YEAR—Continued.
RAILWAYS USING MORE THAN ONE KIND OF MOTIVE POWER, THE STATISTICS FOR THE SEVERAL KINDS NOT BEING SEPARABLE.

No.	STATES AND CITIES.	Name of road.	Motive power used.
ALABAMA.			
3	Birmingham	Birmingham Railway and Electric Co	Animal and steam
9	Mobile	Mobile Street R'y Co	Animal and steam
10	Montgomery	Montgomery Terminal and Street R'y Co	Animal and steam
11	Selma	Selma Street R. R. Co	Animal and steam
ARKANSAS.			
21	Searcy	Searcy and West Point R. R. Co	Animal and steam
CALIFORNIA.			
31	Los Angeles	Pacific R'y Co	Animal and cable
38	Oakland	Oakland R. R. Co	Animal, steam, and cable
56	San Bernardino	Southern California Motor Road Co	Animal and steam
61	San Francisco	Ferris and Cliff House R'y Co	Steam and cable
62	San Francisco	Geary Street Park and Ocean R. R. Co	Steam and cable
63	San Francisco	Market Street Cable R'y Co	Animal, steam, and cable
65	San Francisco	Omnibus Cable Co	Animal and cable
67	San Francisco	Presidio and Ferris R. R. Co	Animal, steam, and cable
71	San Jose	San Jose and Santa Clara R'y Co	Animal and cable
COLORADO.			
83	Denver	Denver Tramway Co	Electric and cable
CONNECTICUT.			
90	Hartford	Hartford and Wethersfield Horse R'y Co	Animal and electric
DISTRICT OF COLUMBIA.			
112	Washington	Washington and Georgetown R. R. Co	Animal and cable
GEORGIA.			
124	Atlanta	Metropolitan Street R. R. Co	Animal and steam
125	Augusta	Augusta and Summerville R. R. Co	Animal and electric
128	Columbus	Columbus R. R. Co	Animal and steam
134	Savannah	City and Suburban R'y Co	Animal and steam
ILLINOIS.			
142	Chicago	Chicago City R'y Co	Animal and cable
144	Chicago	Chicago West Division R'y Co	Animal and cable
145	Chicago	North Chicago Street R. R. Co	Animal and cable
147	Chicago	West Chicago Street R. R. Co	Animal and cable
161	Rock Island	Rock Island and Milan Street R'y Co	Animal and steam
INDIANA.			
182	South Bend	South Bend and Mishawaka R'y	Animal and electric
IOWA.			
195	Des Moines	Des Moines Street R. R. Co	Animal and electric
KANSAS.			
212	Kansas city	Interstate Consolidated Rapid Transit R'y Co	Steam and cable
KENTUCKY.			
228	Louisville	Louisville R'y Co	Animal and electric
LOUISIANA.			
235	New Orleans	New Orleans City and Lake R. R. Co	Animal and steam
MASSACHUSETTS.			
253	Boston	Lynn and Boston R. R. Co	Animal and electric
259	Boston	West End Street R'y Co	Animal and electric
268	Lowell	Lowell and Dracut Street R'y Co	Animal and electric
273	Newburyport	Newburyport and Amesbury Horse R. R. Co	Animal and electric
279	Springfield	Springfield Street R'y Co	Animal and electric

a Only \$250,000 paid. See "Balance sheet".

STREET RAILWAYS.

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TABLE 6.—CAPITAL STOCK, FUNDED DEBT, INTEREST, AND DIVIDENDS, FOR THE CENSUS YEAR—Continued.

RAILWAYS USING MORE THAN ONE KIND OF MOTIVE POWER, THE STATISTICS FOR THE SEVERAL KINDS NOT BEING SEPARABLE.

LENGTH OF TIME COVERED BY REPORT.		CAPITAL STOCK.				FUNDED DEBT.				No.	
		Total issued and outstanding.	Dividends for the year.		Total issued and outstanding.	Interest for the year.					
			Rate.	Amount.		Rate.	Amount.				
				Declared.			Paid.	Accrued.	Paid.		
Months.	Days.										
0		\$1,901,000.00			{ \$762,000.00	6.00	\$20,327.50	\$15,810.98	}	3	
12		500,000.00			225,000.00	7.00				9	
12		200,000.00			500,000.00	6.00	30,000.00	30,000.00		10	
12		25,000.00			150,000.00	6.00	9,000.00	9,000.00		11	
					25,000.00	7.00	875.00	875.00			
		75,000.00								21	
12		2,500,000.00			1,319,000.00	6.00	64,650.00	64,650.00	}	31	
12		250,000.00			83,333.34	6.00	5,000.00	5,000.00		38	
1		627,000.00			41,666.66	6.00	2,500.00	2,500.00		56	
12		2,500,000.00			130,000.00	6.00	42,000.00	42,000.00		61	
12		375,000.00	9.33	\$35,000.00	\$35,000.00	6.00	21,000.00	21,000.00	}	62	
12		5,000,000.00	6.50	325,000.00	325,000.00	6.00	39,000.00	39,000.00		63	
12		2,000,000.00		45,000.00	45,000.00	6.00	180,000.00	180,000.00		65	
12		550,000.00			2,000,000.00	6.00	120,000.00	120,000.00		67	
3		300,000.00			20,700.00					71	
12		531,700.00			1,513,000.00	6.00				83	
12		200,000.00	6.00	12,000.00	12,000.00	100,000.00	5.00	833.33		90	
12		500,000.00	20.00	100,000.00	100,000.00	1,000,000.00	6.00	60,000.00	60,000.00	112	
12		100,000.00			{ 100,000.00	8.00	8,000.00	8,000.00	}	124	
12		200,000.00	1.50	3,000.00	3,000.00	61,000.00	6.00	3,660.00		3,660.00	125
12		25,000.00			86,500.00	8.00	6,920.00	6,920.00		128	
12		50,000.00			76,500.00	6.00	4,590.00	4,590.00		134	
					250,000.00	7.00	17,500.00	17,500.00			
12		5,000,000.00	12.00	600,000.00	600,000.00	4,499,500.00	4.50	202,477.50	193,898.25	142	
		1,250,000.00	35.00	437,500.00	437,500.00	3,440,000.00	5.00	(b)		144	
12		5,000,000.00	{ 3.00	150,000.00	150,000.00	{ 2,350,000.00	5.00	117,500.00	117,237.50	145	
12		10,000,000.00	{ 3.00	150,000.00	150,000.00	{ 4,100,000.00				147	
12		40,000.00	5.00	500,000.00	491,875.00					161	
12		200,000.00				200,000.00	4.00	4,000.00	4,000.00	182	
12		1,000,000.00				600,000.00	6.00	36,000.00	31,530.17	195	
12		1,700,000.00				{ 600,000.00	6.00			}	212
						800,000.00	6.00				
						300,000.00	6.00				
12		500,000.00								228	
12		1,500,000.00	6.00	90,000.00	87,415.50	495,200.00	6.00	31,200.00	31,200.00	235	
12		500,000.00		22,000.00	32,000.00	{ 75,000.00	6.00	4,500.00	4,500.00	}	253
						350,000.00	5.00	17,500.00	17,500.00		
						500,000.00	6.00	30,000.00	30,000.00		
						500,000.00	5.00	25,000.00	25,000.00		
						100,000.00	6.00	6,000.00	6,000.00		
						300,000.00	5.00	15,000.00	15,000.00		
						200,000.00	6.00	12,000.00	12,000.00		
						200,000.00	5.00	10,000.00	10,000.00		
						500,000.00	5.00	25,000.00	25,000.00		
						600,000.00	5.00	30,000.00	30,000.00		
						150,000.00	5.00	7,500.00	7,500.00		
						200,000.00	5.00	10,000.00	10,000.00		
						50,000.00	5.00	2,500.00	2,500.00		
						47,000.00	5.00	2,350.00	2,350.00		
12		200,000.00		6,000.00	6,141.00					268	
12		120,000.00	2.00	2,400.00	2,398.00					273	
12		400,000.00	8.00	30,000.00	30,000.00					279	

b Paid by lessee.

c 8 per cent dividend on \$400,000.

TABLE 6.—CAPITAL STOCK, FUNDED DEBT, INTEREST, AND DIVIDENDS, FOR THE CENSUS YEAR—Continued.

RAILWAYS USING MORE THAN ONE KIND OF MOTIVE POWER, ETC.—Continued.

No.	STATES AND CITIES.	Name of road.	Motive power used.
MICHIGAN.			
290	Grand Rapids	Street R'y Co. of Grand Rapids	Animal and steam
296	Saginaw	Saginaw Union Street R'y	Animal and electric
MINNESOTA.			
304	Saint Paul	Saint Paul City R'y Co.	Animal, cable, and electric
MISSOURI.			
315	Kansas city	Grand Avenue R'y Co	Animal, steam, and cable
218	Kansas city	Metropolitan Street R'y Co	Animal, cable, and electric
329	Saint Louis	Citizens' R'y Co	Animal and cable
333	Saint Louis	Lindell R'y Co	Animal and electric
334	Saint Louis	Missouri R. R. Co	Animal and cable
338	Saint Louis	Saint Louis and Suburban R'y	Steam and cable
MONTANA.			
346	Butte city	Butte City Street R'y Co	Steam and cable
NEBRASKA.			
355	Lincoln	Capital Heights Street R'y Co	Animal and electric
361	Omaha	Omaha Street R'y Co	Animal, cable, and electric
NEW JERSEY.			
373	Jersey city	North Hudson County R'y Co	Animal, steam, and cable
NEW YORK.			
384	Albany	Albany R'y	Animal and electric
386	Albany	Watervliet Turnpike and R. R. Co	Animal and electric
391	Binghamton	Binghamton Street R. R. Co	Animal and electric
402	Brooklyn	Coney Island and Brooklyn R. R. Co	Animal and electric
415	Buffalo	Buffalo Street R. R. Co	Animal and electric
419	Elmira	Elmira and Horseheads R'y Co	Animal and steam
460	New York	Third Avenue R. R. Co	Animal and cable
486	Troy	Troy and Lansingburg R. R. Co	Animal and electric
OHIO.			
497	Cincinnati	Cincinnati Street R'y Co	Animal, cable, and electric
498	Cincinnati	Mount Adams and Eden Park Inclined R'y	Animal and cable
501	Cleveland	Brooklyn Street R. R. Co. and South Side Street R. R. Co	Animal and electric
PENNSYLVANIA.			
564	Philadelphia	Frankford and Southwark Passenger R. R. Co	Animal and steam
572	Philadelphia	Philadelphia Traction Co	Animal and cable
579	Pittsburg	Central Traction Co	Animal and cable
580	Pittsburg	Citizens' Traction Co	Animal and cable
585	Pittsburg	Mount Oliver Incline R'y Co	Animal and cable
RHODE ISLAND.			
613	Providence	Providence Cable Tramway Co	Animal and cable
VIRGINIA.			
674	Richmond	Richmond City Railway and Electric Co	Animal and electric
675	Roanoke	Roanoke Street R'y Co	Animal and steam
WEST VIRGINIA.			
690	Wheeling	Wheeling R'y Co	Animal and electric

^a In the "Balance sheet" of this report it is stated that only \$13,000 is issued.
^b Paid 2 quarterly dividends on \$310,000 and 2 on \$350,000.

^c Part of the bonds were sold during the year.

TABLE 6.—CAPITAL STOCK, FUNDED DEBT, INTEREST, AND DIVIDENDS, FOR THE CENSUS YEAR—Continued.

RAILWAYS USING MORE THAN ONE KIND OF MOTIVE POWER, ETC.—Continued.

LENGTH OF TIME COVERED BY REPORT.		CAPITAL STOCK.				FUNDED DEBT.				No.
		Total issued and outstanding.	Dividends for the year.		Total issued and outstanding.	Interest for the year.				
			Rate.	Amount.		Rate.	Amount.			
Months.	Days.			Declared.	Paid.			Accrued.	Paid.	
12		\$400,000.00				\$600,000.00	6.00	\$36,000.00	\$36,000.00	290
6		200,000.00				150,000.00		5,100.00	5,100.00	296
12		5,000,000.00				{ 680,000.00	6.00	40,800.00 }	100,325.00	304
						1,490,000.00	5.00	74,500.00 }		
12		1,200,000.00	4.50	\$54,000.00	\$54,000.00	1,200,000.00	5.00	60,000.00	30,000.00	315
12		2,788,400.00	2.00	55,752.00	55,752.00	{ 1,000,000.00	5.00	50,000.00	50,000.00	318
						1,000,000.00	5.00	41,666.00	25,000.00	
12		1,000,000.00				12,000.00	6.00	720.00	360.00	329
12		600,000.00	3.00	18,000.00	18,000.00	14,500.00	7.00	90,000.00	90,000.00	333
12		800,000.00	8.00	64,000.00	64,000.00	500,000.00	6.00	30,000.00	30,000.00	334
12		1,000,000.00				{ 600,000.00	6.00	36,000.00 }	13,800.00	338
						400,000.00	6.00	24,000.00 }		
12		250,000.00								346
12		\$61,200.00				{ 8,000.00	7.00	560.00	280.00	355
12		5,000,000.00				5,000.00	10.00			361
						1,950,000.00		95,000.00	95,000.00	
12		477,400.00	8.00	38,192.00	19,096.00	{ 218,500.00	7.00	15,295.00	7,647.50	373
						625,000.00	6.00	37,500.00	18,750.00	
						1,685,000.00	5.00	84,250.00	42,125.00	
12		275,000.00				{ 40,000.00	5.00			384
						20,000.00	7.00			
						28,500.00	7.00			
						11,500.00	6.00			
						50,000.00	5.00			
12		240,000.00				{ 350,000.00	5.00			386
						350,000.00	6.00	21,000.00	21,000.00	
3	8	113,581.25				39,000.00	6.00	2,340.00	2,340.00	391
12		500,000.00				160,000.00	6.00	2,850.00		402
						300,000.00	5.00	15,000.00	15,000.00	
						146,000.00	6.00	730.00	730.00	
12		100,000.00				{ 150,000.00	7.00	10,500.00	10,500.00	415
						650,000.00	7.00-6.00	43,500.00	43,500.00	
12		68,000.00				6,000.00	6.00	360.00	360.00	419
12		2,000,000.00	12.00	240,000.00	240,000.00	100,000.00	5.00	4,125.00	4,125.00	460
						3,500,000.00	7.00	175,000.00	193,775.00	
12		300,000.00	10.00	30,000.00	30,000.00	{ 50,000.00	5.00	3,500.00	3,500.00	486
		100,000.00				150,000.00	5.00	7,500.00	7,500.00	
						100,155.00	6.00	6,009.30	6,009.30	
12		5,395,000.00		265,775.00	265,775.00	{ 350,000.00	7.00	24,500.00	24,500.00	497
						50,000.00	4.00	2,000.00	2,000.00	
12		1,200,000.00		60,000.00	60,000.00	850,000.00	5.00	42,500.00	42,500.00	498
12		350,000.00	8.00	26,400.00	26,400.00	{ 900,000.00	6.00	41,690.00	41,690.00	501
		300,000.00								
12		1,000,000.00	24.00	240,000.00	240,000.00	100,000.00	7.00	7,000.00	7,000.00	564
12		4,000,000.00	6.25	250,000.00	250,000.00	{ 21,226,000.00	4.00	49,040.00	49,360.00	572
12		748,737.50				375,000.00	5.00	9,375.00	9,375.00	579
12		2,500,000.00	6.00	150,000.00	150,000.00	{ 1,250,000.00 }	5.00	62,500.00	62,500.00	580
12		54,000.00		22,000.00	22,000.00	128,000.00	6.00	2,670.00	2,670.00	585
						44,500.00				
6		300,000.00								613
12		2,000,000.00				1,175,000.00	5.00			674
		300,000.00				20,000.00				675
12		166,666.66								690

d This item appears in "Balance sheet" \$1,231,500.

e Only 6 months' interest on bonds accrued during census year.

TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR.

RAILWAYS OPERATED BY ANIMAL POWER.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		RECEIPTS.				
			Months.	Days.	Total.	From operation.			Rentals and miscellaneous.
						Total.	From passengers.	From other sources.	
ALABAMA.									
7	Decatur	Decatur Street R'y Co.	2		\$2,160.00	\$2,160.00	\$2,160.00		
ARKANSAS.									
15	Fort Smith	Fort Smith Street R'y Co.	12		17,106.75	17,106.75	17,106.75		
17	Hot Springs	Hot Springs Street R. R. Co.	12		29,829.60	29,829.60	29,504.60	\$325.00	
18	Little Rock	Capital Street R'y Co.	12		82,772.96	82,772.96	81,988.45	784.51	
20	Pine Bluff	Citizens' Street R'y Co.	12		14,278.40	14,278.40	14,278.40		
22	Texarkana	Texarkana Street R'y Co.	12		12,000.00	12,000.00	12,000.00		
CALIFORNIA.									
29	Los Angeles	Main Street and Agricultural Park R. R. Co.	12		86,677.90	86,677.90	86,677.90		
35	Marysville	Marysville and Yuba City Street R. R. Co.	10		4,892.79	4,892.79	4,892.79		
36	Oakland	Alameda, Oakland and Piedmont R. R. Co.	12		17,201.50	17,201.50	17,201.50		
37	Oakland	Oakland, Brooklyn and Fruitvale R. R. Co.	12		11,197.80	11,197.80	10,703.00	494.80	
38	Oakland	Oakland R. R. Co.	12		40,330.46	40,002.35	40,002.35		\$328.11
40	Pasadena	Alhambra and Pasadena Street R'y Co.	12		1,147.55	1,147.55	951.55	196.00	
41	Pasadena	City R'y Co.	12		4,533.65	4,533.65	4,533.65		
43	Pasadena	Pasadena Street R. R. Co.	12		2,028.69	2,028.69	2,028.69		
44	Pasadena	West Pasadena R'y Co.	12		450.00	450.00	450.00		
45	Pomona	Orange Grove Street R. R. Co.	12		480.00	480.00	480.00		
48	Redlands	Redlands Street R'y Co.	12		1,176.00	1,176.00	1,176.00		
49	Riverside	Hall's Addition Street R'y Co.	12		623.21	623.21	623.21		
50	Riverside	Riverside and Arlington R'y Co.	12		7,448.17	7,366.67	7,366.67		81.50
51	Riverside	Riverside R'y Co.	12		1,500.00	1,500.00	1,500.00		
53	San Bernardino	City Street R. R. Co.	12		5,779.15	5,779.15	5,766.65	12.50	
59	San Francisco	Central R. R. Co.	12		87,346.99	87,346.99	86,712.10	634.89	
60	San Francisco	City R. R. Co.	12		130,800.37	130,800.37	130,698.80	101.57	
64	San Francisco	North Beach and Mission R. R. Co.	12		255,364.00	255,364.00	245,000.00	10,364.00	
66	San Francisco	Potrero and Bay View R. R. Co.	12		41,904.30	41,904.30	41,904.30		
69	San Jose	First Street and Willow Street R. R.	12		20,000.00	20,000.00	20,000.00		
70	San Jose	North Side Horse R. R. Co.	12		5,000.00	5,000.00	5,000.00		
72	San Luis Obispo	San Luis Street R'y Co.	3		541.80	541.80	541.80		
73	Santa Ana	Santa Ana, Orange and Tustin Street R'y Co.	12		3,564.18	3,370.75	3,370.75		193.43
75	Santa Cruz	Pacific Avenue R. R. Co.	12		10,361.40	10,361.40	10,361.40		
76	Santa Rosa	South Side Street R'y Co.	12		1,351.35	1,351.35	1,351.35		
77	Stockton	Stockton Street R. R. Co.	12		18,350.00	18,350.00	18,000.00	350.00	
78	Woodland	Woodland Street R. R. Co.	12		833.30	833.30	833.30		
COLORADO.									
82	Denver	Denver City R'y Co.	12		290,391.14	290,391.14	289,077.03	1,314.11	
85	Pueblo	Pueblo City R'y Co.	12		54,045.77	54,045.77	44,049.30	9,996.47	
86	Trinidad	Trinidad Street R'y Co.	12		3,750.00	3,750.00	3,750.00		
CONNECTICUT.									
88	Bridgeport	Bridgeport Horse R. R. Co.	12		87,172.60	86,171.27	86,171.27		1,001.33
89	Danbury	Danbury and Bethel Horse R'y Co.	12		38,764.81	38,764.81	37,749.15	1,015.66	
92	New Britain	New Britain Tramway Co.	12		16,700.00	16,700.00	16,450.00	250.00	
93	New Haven	Fair Haven and Westville R. R. Co.	12		136,179.52	133,755.00	133,755.00		2,424.52
94	New Haven	New Haven and Centerville Horse R. R. Co.	12		33,853.50	33,853.50	33,853.50		
95	New Haven	New Haven and West Haven Horse R. R. Co.	12		79,500.00	78,000.00	78,000.00		1,500.00
96	New Haven	State Street Horse R. R. Co.	12		45,499.12	34,286.62	33,629.02	657.60	11,212.50
98	Norwalk	Norwalk Horse R'y Co.	12		36,775.45	36,775.45	36,010.25	765.20	
99	Norwich	Norwich Street R'y Co.	12		35,757.68	35,632.64	34,596.33	1,036.31	125.04
100	Stamford	Stamford Street R. R. Co.	12		10,172.45	10,172.45	10,083.60	88.85	
101	Waterbury	Waterbury Horse R. R. Co.	12		45,617.99	45,617.99	45,117.99	500.00	
102	Westport	Westport and Saugatuck Horse R. R. Co.	12		4,667.46	4,667.46	4,220.14	447.32	
DELAWARE.									
104	Wilmington	Wilmington City R'y Co.	12		75,567.99	75,567.99	74,672.09	895.90	
DIST. OF COLUMBIA.									
105	Washington	Anacostia and Potomac River R. R. Co.	12		21,217.88	21,005.92	19,742.31	1,263.61	211.46
107	Washington	Capitol, North O Street and South Washington R'y Co.	12		131,117.19	131,117.19	127,869.16	3,248.03	
108	Washington	Columbia R'y Co.	12		62,599.35	62,599.35	61,534.58	1,064.77	
111	Washington	Metropolitan R. R. Co.	12		436,493.16	436,493.16	385,352.91	51,140.25	
112	Washington	Washington and Georgetown R. R. Co.	12		663,809.90	663,809.90	654,233.45	9,576.45	
FLORIDA.									
113	Fort Meade	Fort Meade Street R'y Co.	12		1,670.07	1,670.07	335.82	1,334.25	
114	Jacksonville	Jacksonville Street R. R. Co.	12		42,935.10	42,935.10	42,023.70	911.40	
115	Jacksonville	Main Street R'y Co.	12		6,621.60	6,621.60	6,621.60		
117	Palatka	Palatka and Heights Street R'y Co.	12		1,677.50	1,677.50	1,677.50		
118	Pensacola	Pensacola Street Car Co.	12		14,330.00	14,330.00	14,330.00		

a New construction.

STREET RAILWAYS.

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TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR.

RAILWAYS OPERATED BY ANIMAL POWER.

EXPENDITURES.											Surplus for period of time covered.	Deficit for period of time covered.	No.
Total.	Operating expenses.		Fixed charges.					Payments from net income.					
	Amount.	Percent- age of operating expenses to operat- ing in- come.	Total.	Rentals.	Taxes and licenses.	Interest.	Miscella- neous.	Dividends.	Miscella- neous.				
\$1,200.00	\$1,200.00	55.56									\$960.00		7
13,984.99	12,265.99	71.70	\$1,719.00	\$120.00	\$549.00	\$1,050.00					3,121.76		15
24,799.05	19,820.17	66.44	1,732.00		372.00	1,360.00			\$3,246.88		5,030.55		17
82,772.96	71,480.64	86.36	2,375.00		2,375.00			\$8,917.32					18
14,278.40	8,163.14	57.17	1,853.00		453.00	1,400.00		4,262.26					20
6,480.00	6,300.00	52.50	180.00		180.00						5,520.00		22
79,344.20	70,863.43	81.75	4,480.77	1,800.00	1,680.81	999.96			4,000.00		7,333.70		29
3,944.00	3,944.00	80.61									948.79		35
12,760.00	11,860.00	68.95	900.00		200.00	700.00					4,441.50		36
12,596.48	10,806.51	96.51	362.97		362.97				1,427.00			\$1,398.68	37
40,560.87	37,208.17	93.01	3,352.70		852.70	2,500.00						230.41	38
2,222.30	1,659.30	144.60	563.00		83.00	480.00						1,074.75	40
5,214.92	5,041.02	111.19	173.90		173.90							681.27	41
4,277.34	4,076.88	200.96	200.46		159.46	41.00						2,248.65	43
1,195.00	920.00	204.44	275.00		175.00	100.00						745.00	44
772.95	722.00	150.42	50.95		50.95							292.95	45
1,319.53	1,309.88	111.38	9.65		9.65							143.53	48
1,130.08	1,083.78	173.90	46.30		46.30							506.87	49
6,828.60	6,276.27	85.20	552.33		54.80	497.53					619.57		50
1,694.00	1,610.00	107.33	84.00		84.00							194.00	51
6,989.21	6,481.24	112.15	507.97		96.17	411.80						1,210.06	53
101,556.18	97,912.96	112.10	2,357.53		2,357.53					1,285.69		14,209.19	59
154,277.21	129,155.02	98.74	4,287.30		4,287.30			16,000.00	4,834.89			23,476.84	60
251,672.60	229,074.20	89.70	7,598.40	2,000.00	4,998.40	600.00		15,000.00			3,691.40		64
32,894.23	32,570.32	77.73	323.91		323.91						9,010.07		66
9,850.00	9,550.00	47.75	300.00		300.00						10,150.00		69
7,370.00	7,090.00	141.80	280.00		280.00							2,370.00	70
842.17	818.17	151.01	24.00		24.00							300.37	72
5,450.32	3,963.09	117.57	1,487.23	27.50	301.60	1,158.13						1,886.14	73
10,361.40	6,212.60	59.96	548.80		548.80				3,600.00				75
2,004.98	1,528.83	113.13	476.15		96.15	380.00						653.63	76
16,174.00	15,500.00	84.47	674.00		464.00	210.00					2,176.00		77
892.90	820.00	98.40	72.90	30.00	42.90							59.60	78
254,637.67	224,523.06	77.32	9,898.90		9,898.90						35,753.47		82
65,911.03	36,286.77	67.14	3,940.26		2,625.44	1,314.82			20,215.71			11,865.26	85
4,530.00	4,150.00	110.67	380.00		80.00	300.00			25,684.00			780.00	86
63,063.15	57,553.61	66.79	5,509.54		1,734.82	3,774.72					24,109.45		88
34,888.91	32,588.91	84.07	2,300.00		500.00	1,800.00					3,875.90		89
15,710.00	15,600.00	93.41	110.00		110.00						990.00		92
119,788.06	92,188.06	68.92	3,600.00		3,600.00			24,000.00			16,391.46		93
21,417.00	18,167.00	53.66	3,250.00	150.00	400.00	2,700.00					12,436.50		94
72,269.00	61,800.00	79.23	5,114.00		1,314.00	3,800.00		5,355.00			7,231.00		95
47,280.38	24,837.21	72.44	2,970.08	25.00	819.50	2,125.58		2,769.00	16,704.09			1,781.26	96
32,580.79	30,285.79	82.35	2,295.00		795.00	1,500.00					4,194.66		98
31,675.75	27,264.36	76.52	1,187.54	585.04	602.50				3,223.85		4,081.93		99
14,180.25	14,090.25	138.51	90.00		90.00							4,007.80	100
39,554.06	35,804.06	78.49	3,750.00		1,000.00	2,750.00					6,063.93		101
4,458.91	3,386.41	72.55	172.50		172.50			900.00			208.55		102
67,495.80	55,858.94	73.92	5,161.86		661.86	4,500.00		5,225.00	1,250.00		8,072.19		104
17,713.07	16,576.16	78.91	1,136.91	120.00	99.90	917.01					3,504.31		105
133,076.03	101,936.73	77.74	7,089.01	789.00	3,300.01	3,000.00		24,050.29				1,958.84	107
64,862.65	62,202.41	99.37	2,660.24	232.65	1,572.76	854.83						2,263.30	108
448,928.49	359,599.67	82.38	23,702.57		23,172.99	529.58		65,626.25				12,435.33	111
654,047.05	465,775.30	70.17	88,271.75		28,271.75	60,000.00		100,000.00			9,762.85		112
1,290.42	965.50	57.81	84.92	25.00	59.92				240.00		379.65		113
51,214.68	44,326.88	103.24	6,887.80		862.80	6,025.00						8,279.58	114
4,868.30	4,559.60	68.86	308.70		70.70	238.00					1,753.30		115
3,525.00	3,525.00	210.13										1,847.50	117
14,621.35	12,108.00	84.49	2,513.35		263.35	2,250.00						291.35	118

TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		RECEIPTS.				
			Months.	Days.	Total.	From operation.			Rentals and miscellaneous.
						Total.	From passengers.	From other sources.	
GEORGIA.									
120	Athens	Athens R'y Co.	6		\$4,286.75	\$4,286.75	\$4,286.75		
122	Atlanta	Atlanta Street R. R. Co.	12		150,000.00	150,000.00	150,000.00		
125	Augusta	Augusta and Summerville R. R. Co.	12		43,777.29	43,777.29	40,609.13	\$3,168.16	
127	Brunswick	Brunswick Street R. R. Co.	12		10,963.82	10,963.82	10,963.82		
132	Rome	North and South Street R. R. Co.	12		3,750.00	3,750.00	3,750.00		
135	Savannah	Savannah Street and Rural Resort R. R. Co.	12		52,488.00	52,488.00	52,488.00		
ILLINOIS.									
136	Alton	Alton and Upper Alton Horse Railway and Carrying Co.	12		10,480.53	10,480.53	9,728.35	752.18	
138	Aurora	Aurora City R'y Co.	12		13,860.00	13,860.00	13,860.00		
139	Belleville	Citizens' Horse R'y Co.	12		6,101.70	6,101.70	6,101.70		
140	Bloomington	Bloomington City R'y.	12		40,890.47	40,890.47	40,890.47		
141	Cairo	Cairo Street R'y Co.	12		9,270.64	9,270.64	9,270.64		
148	Chillicothe	People's Street R. R. Co.	12		2,149.78	2,149.78	2,149.78		
149	Danville	Citizens' Street R'y Co.	12		17,658.44	17,658.44	16,632.19	1,026.25	
153	Galesburg	College City Street R'y Co.	12		8,000.00	8,000.00	8,000.00		
154	Lasalle	Lasalle and Peru Horse and Dummy R. R. Co.	12		541.85	541.85	541.85		
155	Mechanicsburg	Mechanicsburg and Buffalo R'y Co.	12		1,500.00	1,500.00	1,500.00		
159	Peoria	Fort Clark Horse R'y Co.	12		38,063.10	38,063.10	38,063.10		
160	Rockford	Rockford City R'y Co.	12		22,683.25	22,683.25	22,577.00	106.25	
162	Springfield	Citizens' Street R'y Co.	12		38,249.20	38,249.20	38,024.20	225.00	
163	Springfield	Springfield City R'y Co.	12		36,845.54	36,845.54	36,756.54	89.00	
164	Urbana	Urbana and Champaign Street R'y Co.	12		11,909.92	11,909.92	11,234.92	675.00	
INDIANA.									
167	Evansville	Evansville Street R'y Co.	12		71,406.73	71,322.73	71,322.73		\$84.00
169	Fort Wayne	C. L. Centlivre Street R'y Co.	12		4,849.00	4,849.00	4,849.00		
170	Fort Wayne	Fort Wayne Street R. R. Co.	12		70,614.20	70,614.20	70,614.20		
171	Greencastle	Greencastle City Street R. R. Co.	12		4,350.00	4,350.00	4,350.00		
172	Indianapolis	Citizens' Street R. R. Co.	12		494,035.00	494,035.00	493,150.00	885.00	
173	Jeffersonville	Ohio Falls Street R'y Co.	12		9,804.29	9,742.29	9,579.40	162.89	62.00
175	Logansport	Logansport R'y Co.	11	26	10,024.47	10,024.47	10,024.47		
176	Madison	Madison Street R'y Co.	12		5,771.15	5,771.15	5,719.97	51.18	
177	Marion	Marion Street R. R. Co.	6		1,452.94	1,452.94	1,452.94		
178	Michigan city	Citizens' Street R'y Co.	12		6,620.00	6,620.00	6,500.00	120.00	
180	New Albany	New Albany R'y Co.	12		39,853.36	27,853.36	26,713.15	1,140.21	12,000.00
183	Terre Haute	Terre Haute Street R'y Co.	12		50,288.24	50,288.24	47,638.56	2,649.68	
184	Terre Haute	Vigo County Street R'y Co.	12		2,500.00	2,500.00	2,500.00		
IOWA.									
186	Boone	Boone and Boonesboro Street R'y Co.	12		4,275.00	4,275.00	4,275.00		
187	Burlington	Burlington Street R. R.	12		4,987.50	4,987.50	4,987.50		
188	Cedar Rapids	Cedar Rapids and Marion R'y.	7		2,226.45	2,226.45	2,226.45		
189	Centerville	People's Street R'y Co.	12		3,625.00	3,625.00	3,600.00	25.00	
196	Dubuque	Dubuque Street R'y Co.	12		18,534.50	18,534.50	18,534.50		
199	Keokuk	Keokuk Street R'y Co.	12		8,500.00	8,500.00	8,430.00	70.00	
200	Lyons	Clinton and Lyons Horse R'y Co.	12		24,292.71	24,292.71	24,292.71		
201	Marshalltown	Marshalltown Passenger R'y Co.	12		4,125.34	4,125.34	4,036.49	88.85	
203	Red Oaks	Red Oaks Street R'y Co.	12		1,500.00	1,500.00	800.00	700.00	
206	Waterloo	Waterloo Street R'y Co.	12		1,675.00	1,675.00	1,590.00	85.00	
KANSAS.									
208	Arkansas city	Arkansas City Street R'y Co.	12		4,296.42	4,296.42	4,296.42		
210	Cottonwood Falls	Consolidated Street R'y Co.	12		3,018.79	3,018.79	3,018.79		
211	Hutchinson	Hutchinson Street R'y Co.	12		24,706.00	24,706.00	23,506.00	1,200.00	
213	Lawrence	Lawrence Transportation Co.	12		14,684.78	14,684.78	14,684.78		
214	Leavenworth	Leavenworth and Suburban R'y.	12		10,607.91	10,607.91	10,554.26	53.65	
216	McPherson	McPherson Street R'y Co.	12		4,622.90	4,622.90	4,622.90		
217	Newton	Newton City Street R'y Co.	12		1,436.78	1,436.78	1,300.00	136.78	
221	Topeka	Topeka City R'y Co.	12		56,285.68	56,285.68	55,326.58	959.10	
223	Wichita	Wichita Rapid Transit Co.	12		272.87	272.87	272.87		
224	Winfield	Union Street R'y Co.	12		3,570.53	3,570.53	3,570.53		
KENTUCKY.									
225	Bowling Green	Park City R'y.	12		3,398.82	3,398.82	3,398.82		
226	Covington	South Covington and Cincinnati Street R'y Co.	12		232,795.95	232,795.95	232,795.95		
227	Henderson	Henderson Street R'y Co.	12		9,869.05	9,869.05	9,869.05		
229	Maysville	Maysville Street Railroad and Transfer Co.	12		9,700.00	9,700.00	9,600.00	100.00	
LOUISIANA.									
232	New Orleans	Canal and Claiborne R. R. Co.	12		99,896.30	99,896.30	99,896.30		
233	New Orleans	Crescent City R. R. Co.	12		237,438.65	225,922.90	225,922.90		11,510.75
234	New Orleans	New Orleans and Carrollton R. R. Co.	12		229,484.71	221,993.45	221,993.45		7,491.26
237	New Orleans	Orleans R. R. Co.	12		68,945.40	68,945.40	68,605.15	340.25	
238	New Orleans	Saint Charles Street R. R. Co.	12		218,947.40	218,947.40	218,505.00	442.40	

STREET RAILWAYS.

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TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

EXPENDITURES.												Surplus for period of time covered.	Deficit for period of time covered.	No.
Total.	Operating expenses.		Fixed charges.					Payments from net income.						
	Amount.	Percentage of operating expenses to operating income.	Total.	Rentals.	Taxes and licenses.	Interest.	Miscellaneous.	Dividends.	Miscellaneous.					
\$2,841.11	\$2,841.11	66.28										\$1,445.64		120
142,549.88	92,736.46	61.82	\$1,736.87		\$1,736.87							7,450.12		122
74,091.43	61,765.65	141.09	9,325.78		895.62	\$8,430.16		\$3,000.00	\$48,076.55				\$30,314.14	125
13,794.74	12,994.74	118.52	800.00		800.00								2,830.92	127
2,830.00	2,680.00	71.47	150.00		150.00							920.00		132
50,784.24	49,951.00	95.17	833.24		833.24							1,703.76		135
13,441.37	13,126.19	125.24	315.18		315.18								2,960.84	136
10,119.50	9,919.50	71.57	200.00		200.00							3,740.50		138
6,334.90	6,154.90	100.87	180.00		180.00								233.20	139
30,241.45	16,598.95	40.59	13,642.50		880.00	12,762.50						10,649.02		140
9,270.64	5,870.22	63.32	1,057.88		257.88	800.00			2,342.54					141
2,018.10	1,880.10	87.46	138.00	\$100.00	38.00							131.68		148
15,328.33	14,742.56	83.49	585.77		403.10	182.67						2,330.11		149
7,120.00	6,000.00	75.00	1,120.00			1,120.00						880.00		153
1,070.64	1,070.64	197.59											528.79	154
800.00	800.00	53.33										700.00		155
27,551.51	23,293.48	61.20	4,258.03	84.00	490.92	3,683.11						10,511.59		159
20,898.01	18,243.30	80.43	1,338.34	37.50	293.95	1,006.89						1,785.24		160
34,756.99	25,199.76	65.88	6,786.65		461.25	6,325.40			1,316.37			2,770.58		162
36,845.54	28,544.27	77.47	1,904.57		835.96	1,068.61		3,750.00	2,646.70			3,492.21		163
11,909.92	7,043.81	59.14	425.68		425.68			4,440.43						164
67,758.18	55,893.67	78.37	11,864.51		1,244.51	10,620.00						3,648.55		167
4,839.85	4,721.00	97.36	118.85		118.85							9.15		169
77,192.58	62,260.53	88.17	14,932.05		1,670.79	13,261.26							6,578.38	170
2,425.00	2,395.00	55.06	30.00		30.00							1,925.00		171
489,880.19	371,000.65	75.10	38,879.54		6,879.54	32,000.00		80,000.00				4,154.81		172
8,984.47	8,728.55	89.59	255.92			255.92						819.82		173
8,884.59	7,591.18	75.73	1,293.41		176.18	1,117.23						1,139.88		175
2,684.29	2,594.59	44.96	89.70		69.20	20.50						3,086.86		176
1,789.50	1,789.50	123.16											336.56	177
5,985.00	5,960.00	90.03	25.00		25.00							635.00		178
39,853.36	30,080.30	108.00	9,773.06		1,757.06	8,016.00								180
54,277.83	37,460.83	74.49	7,507.00		1,507.00	6,000.00		9,310.00					3,989.59	183
462.00	430.00	17.20	32.00		32.00							2,038.00		184
3,938.75	2,162.75	50.59	126.00		126.00			1,650.00				336.25		186
6,128.22	6,003.22	120.37	125.00		125.00								1,140.72	187
2,529.49	2,529.49	113.61											303.04	188
3,625.00	2,385.00	65.79	40.00		40.00			1,200.00						189
16,821.38	12,805.91	66.39	4,515.47		515.47	4,000.00						1,713.12		196
9,278.40	7,740.00	91.06	1,538.40	1,000.00	178.40	360.00							778.40	199
14,851.26	14,104.08	58.06	747.18		747.18							9,441.45		200
3,449.87	3,328.35	80.68	121.52		121.52							675.47		201
1,218.00	1,170.00	78.00	48.00		48.00							282.00		203
1,276.68	1,276.68	76.22										398.32		206
4,975.41	4,684.85	109.04	290.56		290.56								678.99	208
2,386.58	1,231.00	40.80	454.98		104.98	350.00			700.00			632.21		210
11,478.75	10,958.75	44.36	520.00	360.00	160.00							13,227.25		211
13,184.00	12,926.00	88.02	258.00		258.00							1,500.78		213
13,211.45	12,895.35	121.56	316.10		316.10								2,603.54	214
3,807.19	2,582.36	55.86	1,224.83		100.00	1,124.83						815.71		216
4,329.08	2,298.47	159.97	2,030.61		230.61	1,800.00							2,892.30	217
76,911.78	65,898.79	117.08	11,012.99		2,122.68	8,890.31							20,626.10	221
818.85	773.25	283.38	45.60		45.60								545.98	223
3,410.42	3,100.00	86.82	310.42		110.42	200.00						160.11		224
2,280.53	2,280.53	67.10										1,118.29		225
226,504.55	145,352.84	62.44	61,425.48	1,322.00	39,643.48	20,460.00		18,000.00	1,726.23			6,291.40		226
9,805.78	9,731.08	98.60	74.70		74.70							63.27		227
7,487.55	6,184.90	63.76	1,302.65		102.65	1,200.00						2,212.45		229
108,144.00	98,561.78	98.66	9,582.22		4,023.22	5,559.00							8,247.70	232
233,187.68	147,374.74	65.23	31,068.40		22,488.40	8,580.00		45,946.00	8,798.54			4,245.97		233
195,294.08	132,702.47	59.78	42,686.11	500.00	21,734.89	20,451.22		19,905.50				34,190.63		234
67,999.40	45,141.46	65.47	8,057.94		6,907.74	1,150.20		14,800.00				946.00		237
186,778.82	107,898.32	49.05	32,766.00		22,866.00	9,900.00		46,014.50				32,168.58		238

TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		RECEIPTS.				
			Months.	Days.	Total.	From operation.			Rentals and miscellaneous.
						Total.	From passengers.	From other sources.	
MAINE.									
239	Biddeford.....	Biddeford and Saco R. R. Co.....	12		\$20,553.22	\$20,553.22	\$20,097.18	\$456.04	
240	Fryeburg.....	Fryeburg Horse R. R. Co.....	12		857.09	857.09	857.09		
241	Portland.....	Portland R. R. Co.....	12		138,654.36	138,654.36	136,010.53	2,643.83	
MARYLAND.									
242	Baltimore.....	Baltimore and Powhatan R'y Co.....	12		10,923.24	10,188.30	10,188.30		\$734.94
243	Baltimore.....	Baltimore City Passenger R'y Co.....	12		872,183.80	870,001.30	856,497.54	13,503.76	2,182.50
244	Baltimore.....	Baltimore Traction Co.....	12		349,909.14	343,737.16	340,386.70	3,350.46	6,171.98
245	Baltimore.....	Baltimore Union Passenger R'y Co.....	12		330,668.65	329,028.00	324,517.76	4,510.24	1,640.65
246	Baltimore.....	Highlandtown and Point Breeze R'y Co.....	12		39,451.89	39,451.89	39,451.89		
248	Baltimore.....	North Baltimore Passenger R'y Co.....	12		271,700.00	271,700.00	268,000.00	3,700.00	
MASSACHUSETTS.									
251	Boston.....	Boston and Chelsea Street R. R. Co.....	12		7,260.00				7,260.00
255	Boston.....	Newton Street R'y Co.....	12		16,920.02	16,860.02	10,685.02	175.00	60.00
256	Boston.....	North Woburn Street R. R. Co.....	12		19,809.06	19,809.06	19,495.48	313.58	
258	Boston.....	Somerville Horse R. R. Co.....	12		9,180.00				9,180.00
260	Brockton.....	Brockton Street R'y Co.....	12		91,282.81	90,249.40	89,949.40	300.00	1,033.41
262	Fall River.....	Globe Street R'y Co.....	12		157,300.23	157,300.23	154,747.62	2,552.61	
263	Fitchburg.....	Fitchburg Street R'y Co.....	12		31,402.53	31,402.53	30,961.92	440.61	
264	Gloucester.....	Gloucester Street R'y Co.....	12		35,452.52	35,452.52	34,436.23	1,016.29	
265	Haverhill.....	Haverhill and Groveland Street R'y Co.....	12		57,725.96	57,725.96	56,801.94	924.02	
266	Holyoke.....	Holyoke Street R'y Co.....	12		37,212.96	34,410.96	33,884.99	525.97	2,802.00
267	Lawrence.....	Merrimack Valley Horse R. R. Co.....	12		80,381.29	79,250.50	79,250.50		1,130.79
269	Lowell.....	Lowell Horse R. R. Co.....	12		116,182.87	115,118.35	114,354.20	764.15	1,064.52
271	Natick.....	Natick and Cochituate Street R'y Co.....	12		14,856.12	14,856.12	14,149.91	706.21	
272	New Bedford.....	Union Street R'y Co.....	12		145,723.46	145,723.46	143,000.44	2,723.02	
275	Northampton.....	Northampton Street R'y Co.....	12		20,137.02	20,137.02	19,479.32	657.70	
277	Pittsfield.....	Pittsfield Street R'y Co.....	12		14,882.20	14,882.20	14,246.87	635.33	
280	Taunton.....	Taunton Street R'y Co.....	12		37,560.31	37,560.31	37,560.31		
281	Wareham.....	East Wareham, Onset Bay and Point Independence Street R'y Co.....	12		3,572.18	3,572.18	2,348.92	1,223.26	
282	Worcester.....	Worcester Consolidated Street R'y Co.....	12		235,399.09	235,399.09	232,474.66	2,924.43	
MICHIGAN.									
285	Detroit.....	Detroit City R'y.....	12		720,200.00	709,000.00	709,000.00		11,200.00
288	Detroit.....	Fort Wayne and Elmwood R'y Co.....	12		170,570.43	170,570.43	166,076.80	4,493.63	
291	Grand Rapids.....	Valley City Street and Cable R'y Co.....	12		11,020.50	11,020.50	11,020.50		
292	Jackson.....	Jackson City R'y Co.....	12		18,700.00	18,700.00	18,700.00		
295	Saginaw.....	City of Saginaw Street R. R. Co.....	12		32,742.96	32,742.96	32,357.13	385.83	
MINNESOTA.									
299	Duluth.....	Duluth Street R'y Co.....	12		59,916.14	59,916.14	59,757.39	158.75	
300	Mankato.....	Mankato Street R'y Co.....	12		4,326.43	4,326.43	4,280.65	45.78	
302	Minneapolis.....	Minneapolis Street R'y Co.....	12		588,606.46	588,606.46	586,284.05	2,322.41	
306	Winona.....	Winona City R'y Co.....	12		13,626.28	13,626.28	13,626.28		
MISSISSIPPI.									
307	Enterprise.....	Enterprise Street R'y Co.....	12		160.00	160.00	160.00		
308	Jackson.....	Jackson City R'y Co.....	12		18,400.00	18,400.00	18,300.00	100.00	
309	Meridian.....	Meridian Street R. R. Co.....	12		10,533.25	10,533.25	10,533.25		
MISSOURI.									
315	Kansas city.....	Grand Avenue R'y Co.....	12		8,146.75	8,146.75	8,146.75		
320	Kansas city.....	North Kansas City Street R'y.....	9	18	1,622.50	1,622.50	1,622.50		
326	Saint Louis.....	Baden and Saint Louis R. R.....	12		12,419.75	12,419.75	12,335.30	84.45	
327	Saint Louis.....	Benton-Bellefontaine R'y Co.....	12		118,063.75	118,063.75	118,063.75		
328	Saint Louis.....	Cass Avenue and Fair Ground R'y Co.....	12		172,000.00	172,000.00	172,000.00		
330	Saint Louis.....	Forest Park, Laclede and Fourth Street R'y Co.....	12		60,212.78	60,212.78	60,212.78		
331	Saint Louis.....	Fourth Street and Arsenal R'y Co.....	12		50,300.00	50,300.00	50,000.00	300.00	
332	Saint Louis.....	Jefferson Avenue R. R. Co.....	12		86,681.97	80,833.80	80,833.80		5,848.17
334	Saint Louis.....	Missouri R. R. Co.....	12		88,526.14	88,526.14	88,526.14		
335	Saint Louis.....	Mound City Street R'y Co.....	12		151,152.46	124,018.70	124,018.70		27,133.76
336	Saint Louis.....	Northern Central R'y Co.....	12		110,000.00	110,000.00	110,000.00		
339	Saint Louis.....	Saint Louis R. R. Co.....	12		382,527.65	382,527.65	380,527.65	2,000.00	
340	Saint Louis.....	Southern R'y Co.....	12		138,126.83	137,226.83	137,226.83	900.00	
341	Saint Louis.....	Union Depot R. R. Co.....	12		279,285.48	264,488.05	264,488.05		14,797.43
342	Saint Louis.....	Union R. R. Co.....	12		114,000.00	110,000.00	110,000.00		4,000.00
344	Springfield.....	Citizens' R'y Co.....	12		43,564.97	43,444.22	43,376.22	68.00	120.75
345	Warrensburg.....	Electric Springs R'y.....	4		525.00	525.00	525.00		
MONTANA.									
348	Helena.....	Helena Street R'y Co.....	12		22,075.00	22,075.00	22,000.00	75.00	

STREET RAILWAYS.

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TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

EXPENDITURES.											Surplus for period of time covered.	Deficit for period of time covered.	No.
Total.	Operating expenses.		Fixed charges.					Payments from net income.					
	Amount.	Percent- age of operating expenses to operat- ing in- come.	Total.	Rentals.	Taxes and licenses.	Interest.	Miscella- neous.	Dividends.	Miscella- neous.				
\$20,131.85	\$17,268.31	84.02	\$2,863.54		\$70.00	\$2,793.54				\$421.37	239		
590.46	547.50	63.88	42.96		0.96	42.00				266.63	240		
134,143.06	108,667.44	78.37	5,761.28	\$1,712.92	1,949.55	2,098.81		\$12,000.00	\$7,714.34	4,511.30	241		
11,776.28	10,241.42	100.52	1,534.86		84.50	1,450.36					\$853.04	242	
857,840.22	616,565.53	70.87	121,274.69	2,655.67	118,619.02			120,000.00		14,343.58		243	
353,655.25	231,290.47	67.29	122,364.78	342.08	46,972.70	75,050.00				3,746.11		244	
293,067.73	228,058.55	69.31	50,009.18	2,166.45	25,568.30	22,274.43		15,000.00		37,600.92		245	
37,635.36	33,467.82	84.83	4,167.54		2,244.07	1,923.47				1,816.53		246	
249,600.00	181,952.28	66.97	31,647.72		31,647.72			36,000.00		22,100.00		248	
7,260.00								7,260.00				251	
16,308.64	14,287.67	84.74	20.97		20.97			2,000.00		611.38		255	
19,854.85	17,253.53	87.10	2,601.32	71.93	1,110.12	1,419.27				45.79		256	
9,180.00								9,180.00				258	
88,420.98	66,093.48	73.23	7,327.50		2,499.08	4,828.42		15,000.00		2,861.83		260	
154,425.56	130,411.84	82.91	6,013.72		5,810.28	203.44		18,000.00		2,874.67		262	
30,045.59	23,911.95	76.15	2,533.64	200.00	981.35	1,352.29		3,600.00		1,356.94		263	
33,429.73	30,827.93	86.96	2,601.80		451.80	2,150.00				2,022.79		264	
55,987.67	45,382.41	78.62	1,065.26		1,065.26			8,640.00		1,738.29		265	
29,471.27	26,891.53	78.15	1,079.74		649.11	430.63		1,500.00		7,741.69		266	
71,398.80	62,658.77	79.06	2,340.03		1,424.14	915.89		6,400.00		8,982.49		267	
119,666.11	103,742.14	90.12	10,769.27	1,807.50	2,102.08	6,859.69		4,023.00	1,131.70	3,483.24		269	
11,531.54	9,608.59	64.68	422.95		422.95			1,500.00		3,324.58		271	
137,425.04	112,198.95	76.99	9,638.09		4,503.54	5,134.55		15,588.00		8,298.42		272	
25,672.22	25,526.72	126.77	145.50		145.50					5,535.20		275	
15,117.68	13,729.04	92.25	1,388.64	80.00	438.64	870.00				235.48		277	
37,313.14	30,190.68	80.38	3,122.46		1,113.97	2,008.49		4,000.00		247.17		280	
2,843.73	2,528.86	70.79	88.16		88.16				226.71	728.45		281	
217,185.47	171,259.58	72.75	19,675.89		7,121.96	12,553.93		26,250.00		18,213.62		282	
731,710.92	585,470.82	82.58	72,740.10		27,790.58	44,949.52		73,500.00			11,510.92	285	
156,778.13	127,944.25	75.01	3,833.88		3,833.88			25,000.00		13,792.30		288	
29,213.21	26,467.23	240.16	2,745.98		291.83	2,454.15				18,192.71		291	
10,670.00	10,610.00	56.74	60.00		60.00					8,030.00		292	
28,786.19	27,668.73	84.50	1,117.46		617.46	500.00				3,956.77		295	
46,404.08	37,658.66	62.85	8,745.42		1,422.80	7,322.62				13,512.06		299	
6,304.17	5,213.52	120.50	1,090.65	75.00	143.39	872.26				1,977.74		300	
544,019.78	408,535.25	69.41	135,484.53		11,941.92	116,642.31	\$6,900.30			44,586.68		302	
8,182.74	7,929.23	58.19	253.51		253.51					5,443.54		306	
77.50	48.00	30.00	29.50		29.50					82.50		307	
17,025.00	14,025.00	76.22	3,000.00			3,000.00				1,375.00		308	
10,077.50	10,040.00	95.32	37.50		37.50					455.75		309	
10,125.84	9,884.22	121.33	241.62		241.62						1,979.09	315	
1,534.58	1,534.58	94.58								87.92		320	
11,349.14	9,733.30	78.37	115.84		115.84			1,500.00		1,070.61		326	
105,462.00	99,312.00	84.12	6,150.00		2,650.00	3,500.00				12,601.75		327	
172,000.00	112,000.00	65.12	15,000.00		3,000.00	12,000.00		45,000.00				328	
73,995.10	64,547.85	107.20	9,447.25		3,000.25	6,447.00					13,782.32	330	
46,485.42	45,769.00	90.99	716.42		716.42					3,814.58		331	
60,172.28	45,677.61	56.51	7,774.67		1,774.67	6,000.00		6,720.00		26,509.69		332	
78,730.62	75,441.62	85.22	3,289.00		3,289.00					9,795.52		334	
130,588.67	70,427.98	56.79	10,160.69	375.00	2,285.69	7,500.00		50,000.00		20,563.79		335	
108,000.00	86,000.00	78.18	22,000.00	4,000.00	6,000.00	12,000.00				2,000.00		336	
382,135.00	260,735.00	68.16	11,400.00		11,400.00			110,000.00		392.65		339	
115,469.47	99,480.39	72.02	15,989.08	1,586.10	2,402.98	12,000.00				22,657.36		340	
228,847.76	177,563.07	67.13	26,284.69	900.00	4,384.69	21,000.00		25,000.00		50,437.72		341	
116,000.00	80,000.00	72.73	12,000.00		3,000.00	9,000.00		24,000.00			2,000.00	342	
39,696.32	26,168.51	60.23	6,327.81		727.81	5,600.00		7,200.00		3,868.65		344	
185.00	185.00	35.24								340.00		345	
23,340.00	23,040.00	104.37	300.00		300.00						1,265.00	348	

TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		Total.	RECEIPTS.				Rentals and miscellaneous.
			Months.	Days.		From operation.				
						Total.	From passengers.	From other sources.		
NEBRASKA.										
349	Beatrice	Beatrice Street R'y Co	12		\$3,204.50	\$3,204.50	\$3,204.50			
350	Fremont	Fremont Street R'y Co	12		2,930.00	2,930.00	2,930.00			
351	Grand Island	Grand Island Street R'y Co	12		8,295.34	8,295.34	8,295.34			
353	Kearney	Kearney Street R'y Co	12		2,200.20	2,200.20	2,200.20			
354	Lincoln	Bethany Heights Street R'y Co	12		780.00	780.00	780.00			
356	Lincoln	Lincoln Street R'y Co	12		59,180.30	59,180.30	58,403.03	\$777.27		
359	Nebraska city	Nebraska City Street R'y Co	12		3,191.31	3,191.31	3,002.95	188.36		
360	Norfolk	Norfolk Street R'y Co	12		4,015.00	4,015.00	3,965.00	50.00		
362	Wymore	Wymore and Blue Springs R'y Co	12		2,793.81	2,793.81	2,793.81			
363	York	York Street R'y Co	12		2,178.90	2,050.00	2,000.00	50.00		\$128.90
NEW HAMPSHIRE.										
364	Dover	Dover Horse R. R	12		6,338.17	6,338.17	6,238.17	100.00		
365	Laconia	Laconia and Lake Village Horse R. R	12		11,475.98	11,475.98	10,680.97	795.01		
366	Manchester	Manchester Street R'y	9		37,140.00	37,140.00	34,970.50	2,169.50		
367	Nashua	Nashua Street R'y	12		22,779.27	22,779.27	21,749.15	1,030.12		
NEW JERSEY.										
370	Camden	Camden Horse R. R. Co.	12		125,852.23	114,869.15	114,869.15			10,983.08
372	Jersey city	Jersey City and Bergen R. R. Co.	12		523,049.96	522,864.81	519,758.90	3,105.91		185.15
377	Newark	Newark and South Orange Horse Car R. R.	12		189,161.61	189,161.61	187,263.68	1,897.93		
379	Orange	Orange Cross Town and Bloomfield R'y Co.	12		43,531.49	43,531.49	42,776.12	755.37		
380	Paterson	Paterson R'y Co.	12		76,836.00	76,836.00	76,484.00	352.00		
381	Phillipsburg	Phillipsburg Car R. R. Co	12		7,497.17	6,927.17	6,787.17	140.00		570.00
NEW MEXICO.										
382	Albuquerque	Albuquerque Street R. R. Co	12		7,373.85	7,373.85	7,226.85	147.00		
383	Las Vegas	Las Vegas Street R'y Co	12		4,648.00	4,648.00	4,600.00	48.00		
NEW YORK.										
385	Albany	North and East Greenbush Horse R. R. Co	12		9,917.47	9,917.47	9,917.47			
387	Amsterdam	Amsterdam Street R. R. Co.	12		5,682.74	5,682.74	5,682.74			
388	Auburn	Auburn City R'y Co	12		12,350.16	12,350.16	11,833.16	517.00		
389	Babylon	Babylon Horse R. R.	3		805.95	805.95	805.95			
390	Binghamton	Binghamton and Port Dickenson R. R. Co.	12		3,000.00					3,000.00
392	Binghamton	Court Street and East End R. R. Co	12		9,449.10	9,219.85	9,219.85			229.25
393	Brooklyn	Atlantic Avenue R'y Co	12		519,874.56	462,728.69	461,478.65	1,250.04		57,145.87
394	Brooklyn	Broadway R. R. Co. of Brooklyn.	12		359,320.13	356,702.66	356,702.66			2,617.47
395	Brooklyn	Brooklyn, Bushwick and Queens County R. R.	12		66,193.74	66,193.74	66,193.74			
396	Brooklyn	Brooklyn City and Newtown R. R. Co.	12		383,707.18	383,658.29	382,324.89	1,333.40		48.89
397	Brooklyn	Brooklyn City R. R. Co.	12		3,231,570.62	3,217,223.80	3,188,716.70	28,507.10		14,346.82
402	Brooklyn	Coney Island and Brooklyn R. R. Co.	12		218,514.06	218,134.06	218,134.06			380.00
409	Brooklyn	Prospect Park and Coney Island R. R. Co. (City Div.)	12		152,561.74	151,767.86	151,467.86	300.00		793.88
410	Brooklyn	Prospect Park and Flatbush R. R. Co.	12		3,309.50	3,309.50	3,306.50	3.00		
412	Brooklyn	South Brooklyn Central R. R. Co.	12		94,594.75	94,590.75	94,290.75	300.00		4.00
413	Brooklyn	Van Brunt Street and Erie Basin R. R. Co.	12		31,357.68	31,357.68	31,357.68			
414	Buffalo	Buffalo East Side Street R'y Co.	12		278,114.97	278,114.97	278,114.97			
416	Buffalo	West Side Street R'y Co.	12		4,300.42	4,300.42	4,300.42			
417	Canandaigua	Canandaigua Street R. R. Co.	12		5,523.58	5,523.58	5,523.58			
418	Cortland	Cortland and Homer Horse R. R. Co	12		10,816.99	10,583.29	9,704.35	878.94		233.70
420	Far Rockaway	Rockaway Village R. R. Co.	12		2,316.87	1,966.87	1,966.87			350.00
421	Frankfort	Frankfort and Ilion Street R. R. Co.	12		4,164.03	4,164.03	4,118.28	45.75		
422	Fredonia	Dunkirk and Fredonia R. R. Co.	12		11,623.02	11,114.65	9,973.05	1,141.60		508.37
423	Fulton	Fulton and Oswego Falls Street R'y Co.	12		4,259.35	4,259.35	3,494.00	765.35		
424	Glens Falls	Glens Falls, Sandy Hill and Fort Edward Street R'y Co.	12		17,762.05	17,762.05	16,851.57	910.48		
426	Jamestown	Jamestown Street R'y Co	12		12,209.10	12,200.10	11,760.72	448.38		
427	Johnstown	Johnstown, Gloversville and Kingsboro Horse R'y Co.	12		14,459.48	14,459.48	14,334.48	125.00		
428	Kingston	Kingston City R. R. Co.	12		30,265.70	30,265.70	29,044.70	1,221.00		
429	Lockport	Lockport Street R. R. Co.	12		9,278.19	9,278.19	9,258.53	19.66		
430	Long Island city	Long Island City and Newtown R. R. Co.	12		23,470.65	23,470.65	23,320.65	150.00		
431	Long Island city	Steinway and Hunters Point R. R. Co.	12		128,504.63	128,029.63	128,029.63			475.00
432	Mohawk	Herkimer and Mohawk Street R. R. Co.	12		6,390.35	6,390.35	6,194.10	196.25		
433	Mohawk	Mohawk and Ilion Horse R. R. Co.	12		6,269.10	6,269.10	6,269.10			
434	New Brighton	Staten Island Belt Line R. R. Co.	12		15,574.96	14,859.03	14,471.28	387.75		715.93
435	Newburg	Newburg Street R'y Co.	12		24,794.85	24,794.85	24,794.85			
436	New York	Broadway and Seventh Avenue R. R. Co.	12		1,599,094.00	1,599,094.00	1,594,894.00	4,200.00		
437	New York	Central Cross Town R. R. Co.	12		291,703.77	291,703.77	289,929.76	1,774.01		
438	New York	Central Park, North and East River R. R. Co.	12		780,579.89	780,579.89	768,837.07	11,742.82		
439	New York	Chambers Street and Grand Street Ferry R. R. Co.	12		125,963.33	125,963.33	125,483.33	480.00		
440	New York	Christopher and Tenth Street R. R. Co.	10		229,502.15	227,922.15	227,922.15			1,580.00

STREET RAILWAYS.

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TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

EXPENDITURES.												Surplus for period of time covered.	Deficit for period of time covered.	No.
Total.	Operating expenses.		Fixed charges.					Payments from net income.						
	Amount.	Percent- age of operating expenses to operat- ing in- come.	Total.	Rental.	Taxes and licenses.	Interest.	Miscella- neous.	Dividends.	Miscella- neous.					
\$4,484.50	\$4,484.50	\$139.94											\$1,280.00	349
6,455.00	4,255.00	145.22	\$2,200.00		\$2,200.00								3,525.00	350
9,825.00	9,714.10	117.10	110.90		110.90								1,529.66	351
2,353.07	2,203.07	100.13	150.00	\$150.00									152.87	353
2,372.50	2,372.50	304.17											1,592.50	354
59,893.61	50,856.95	85.94	9,036.66		536.66	\$8,500.00							713.31	356
4,420.05	4,273.15	133.90	146.90			146.90							1,228.74	359
3,284.80	1,807.57	45.02	1,477.23	1,400.00	77.23					\$730.20				360
2,721.35	2,584.67	92.51	136.68		136.68					72.46				362
2,323.65	1,801.65	87.89	522.00	144.00	28.00	350.00							144.75	363
6,899.15	6,899.15	108.85											560.98	364
9,367.52	9,037.52	78.75	330.00			330.00						2,108.46		365
49,204.71	47,704.71	128.45	1,500.00			1,500.00							12,064.71	366
22,123.01	20,209.65	88.72	1,313.36			1,313.36		\$600.00				656.26		367
108,998.04	74,426.45	64.79	13,721.49		941.71	12,779.78			\$20,850.10	16,854.19				370
502,170.94	367,602.79	70.31	25,701.69		7,641.69	18,060.00		60,000.00	48,866.46	20,879.02				372
188,370.57	186,908.91	98.81	1,461.66		1,461.66					791.04				377
37,927.12	31,690.18	72.80	6,236.94	527.00	735.25	4,974.69				5,004.37				379
73,871.00	60,335.00	78.52	13,536.00		1,526.00	12,010.00				2,965.00				380
5,250.96	5,003.00	72.22	247.96		247.96					2,246.21				381
7,841.43	7,726.83	104.79	114.60		114.60								467.58	382
5,283.00	5,148.00	110.76	135.00		135.00								635.00	383
9,804.68	9,539.50	96.19	265.18		265.18					112.79				385
4,407.08	4,233.78	74.50	67.15		67.15				106.15	1,275.66				387
12,705.25	9,438.12	76.42	3,267.13		177.13	3,090.00						355.09		388
1,178.71	1,178.71	146.25										372.76		389
3,760.31			940.92		940.92			1,222.40	1,596.99			760.31		390
7,825.19	7,679.90	83.30	145.29		145.29					1,623.91				392
582,625.80	440,139.21	95.12	82,486.59	3,347.52	19,421.49	59,717.58		60,000.00				62,751.24		393
348,856.32	288,598.54	80.91	34,007.78	608.48	15,899.30	17,500.00		26,250.00		10,463.81				394
89,348.39	72,939.78	110.19	16,408.61		1,408.61	15,000.00						23,154.65		395
370,251.62	292,002.16	76.11	78,249.46	4,140.00	13,390.29	60,719.17				13,455.56				396
3,194,974.83	2,505,535.86	77.88	321,438.97	79,237.78	137,571.56	104,629.63		368,000.00		36,595.79				397
214,163.81	171,319.94	78.54	25,224.44		9,008.85	16,215.59			17,619.43	4,350.25				402
167,517.60	137,959.93	90.90	29,557.67	23,909.13	5,398.54	250.00						14,955.86		409
4,336.52	2,948.43	89.09	1,388.09	60.00	128.09	1,200.00						1,027.02		410
93,978.35	73,058.53	77.24	20,919.82	250.00	2,744.82	17,925.00				616.40				412
23,590.66	21,015.46	67.02	2,575.20	475.00	600.20	1,500.00				7,767.02				413
278,910.19	221,831.67	79.76	57,078.52		8,612.33	48,466.19						795.22		414
3,151.40	246.95	5.74	2,904.45		1,577.15	1,327.30				1,149.02				416
6,557.48	5,155.66	93.34	1,401.82		201.82	1,200.00						1,033.90		417
9,605.85	7,932.95	74.96	472.90	84.00	388.90			1,200.00		1,211.14				418
3,693.36	2,401.98	122.12	1,291.38		41.38	1,250.00						1,376.49		420
4,213.95	2,592.56	62.26	193.89		193.89			1,427.50				49.92		421
10,957.00	5,474.20	49.25	922.80		922.80			4,560.00		666.02				422
5,742.57	4,744.81	111.40	997.76		97.76	900.00						1,483.22		423
15,771.39	13,620.95	76.69	2,150.44		710.44	1,440.00				1,990.66				424
10,668.46	8,742.04	71.60	1,926.42		426.42	1,500.00				1,540.64				426
13,529.66	10,637.77	73.57	391.89		341.89	50.00		2,500.00		929.82				427
28,795.05	20,788.40	68.69	3,006.65		977.49	2,029.16		5,000.00		1,470.65				428
16,233.31	14,765.18	159.14	1,468.13		218.13	1,250.00						6,955.12		429
28,397.75	16,272.75	69.33	12,125.00		125.00	12,000.00						4,927.10		430
161,656.90	133,545.32	104.31	28,111.58	1,911.92	2,325.76	23,873.90						33,152.27		431
4,963.09	2,610.60	40.85	312.49	25.00	287.49			2,040.00		1,427.26				432
6,513.84	2,886.21	46.04	327.63		327.63			3,300.00				244.74		433
15,380.30	15,012.72	101.03	367.58	200.00	167.58					194.66				434
30,561.62	23,881.45	96.32	6,680.17		612.31	6,000.00	\$67.86					5,766.77		435
1,564,212.13	1,023,854.58	64.03	372,357.55	123,750.00	138,268.62	110,338.93		168,000.00		34,881.87				436
288,364.53	200,984.85	68.90	43,879.68	8,666.66	20,213.02	15,000.00		43,500.00		3,339.24				437
740,387.24	557,941.81	71.48	128,445.43		44,445.43	84,000.00		54,000.00		40,192.65				438
120,368.37	104,850.34	83.24	15,518.03	8,798.87	6,719.16					5,594.96				439
254,185.10	172,139.02	75.53	33,789.83	3,950.00	19,431.91	10,407.92		45,500.00	2,756.25			24,682.95		440

TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		RECEIPTS.				
			Months.	Days.	Total.	From operation.			Rentals and miscellaneous.
						Total.	From passengers.	From other sources.	
NEW YORK—cont'd.									
441	New York.....	Dry Dock, East Broadway and Battery R. R. Co.	12	.....	\$789,440.26	\$780,449.80	\$780,449.80	.....	\$8,990.46
442	New York.....	Eighth Avenue R. R. Co.	12	.....	714,904.25	697,000.14	697,000.14	.....	17,904.11
443	New York.....	Forty-second Street and Grand Street Ferry R. R. Co.	12	.....	432,464.68	423,686.10	423,686.10	.....	8,778.58
444	New York.....	Forty-second Street, Manhattanville and Saint Nicholas Avenue R'y Co.	12	.....	497,734.16	495,762.71	495,762.71	.....	1,971.45
445	New York.....	Harlem Bridge, Morrisania and Fordham R'y Co.	12	.....	173,209.38	171,952.58	171,952.58	.....	1,256.80
446	New York.....	Houston, West Street and Pavonia Ferry R. R. Co.	12	.....	271,874.10	258,195.90	258,195.90	.....	13,678.20
448	New York.....	Larchmont Horse R'y Co.	12	.....	3,437.35	3,437.35	3,417.35	\$20.00	.....
451	New York.....	Mount Vernon and East Chester R'y Co.	12	.....	11,964.02	11,964.02	11,915.60	48.42	.....
452	New York.....	New Rochelle and Pelham R'y Co.	12	.....	8,450.85	8,450.85	8,288.85	162.00	.....
454	New York.....	New York and Harlem R. R. Co. (St. R'y Div.)	12	.....	938,638.69	881,250.60	881,250.60	.....	57,388.09
455	New York.....	Ninth Avenue R. R. Co.	12	.....	242,957.98	236,930.98	236,930.98	.....	6,027.00
456	New York.....	Pelham Park R. R. Co.	12	.....	9,370.68	9,272.81	9,025.95	246.86	97.87
457	New York.....	Second Avenue R. R. Co.	12	.....	911,968.19	907,756.40	907,756.40	.....	4,211.79
458	New York.....	Sixth Avenue R. R. Co.	12	.....	721,150.93	721,150.93	716,979.60	4,171.33	.....
461	New York.....	Twenty-third Street R'y Co.	12	.....	724,224.77	708,931.30	708,931.30	.....	15,293.47
462	Niagara Falls.....	Niagara Falls and Suspension Bridge R'y Co.	12	.....	18,661.74	18,661.74	18,661.74	.....	.....
463	Ogdensburg.....	Ogdensburg Street R'y Co.	12	.....	5,724.35	5,724.35	5,494.80	229.55	.....
464	Olean.....	Olean Street R'y Co.	12	.....	6,986.05	6,986.05	4,630.62	2,355.43	.....
465	Oneida.....	Oneida R'y Co.	12	.....	4,463.20	4,453.20	4,453.20	.....	10.00
466	Oneonta.....	Oneonta Street R'y Co.	12	.....	4,339.12	4,339.12	3,730.29	608.83	.....
467	Oswego.....	Oswego Street R'y Co.	12	.....	6,494.13	6,494.13	6,494.13	.....	.....
469	Rochester.....	Rochester R'y Co.	12	.....	550,410.98	547,565.09	547,565.09	.....	2,845.89
470	Rome.....	Rome City Street R'y Co.	12	.....	15,266.75	15,266.75	15,086.98	179.77	.....
471	Schenectady.....	Schenectady Street R'y Co.	12	.....	8,705.06	8,514.79	8,514.79	.....	190.27
472	Stillwater.....	Stillwater and Mechanicsville Street R'y Co.	12	.....	5,964.65	5,964.65	5,383.75	580.90	.....
473	Syracuse.....	Central City R'y Co.	12	.....	28,164.09	28,164.09	26,982.34	1,181.75	.....
474	Syracuse.....	Fifth Ward R. R. Co.	12	.....	32,625.66	32,625.66	32,172.43	453.23	.....
475	Syracuse.....	Fourth Ward R'y Co.	12	.....	16,790.64	16,549.06	16,549.06	.....	241.58
476	Syracuse.....	Genesee and Water Street R. R. Co.	12	.....	30,213.09	29,138.43	29,138.43	.....	1,074.66
477	Syracuse.....	New Brighton and Onondaga Valley R. R. Co.	12	.....	4,849.37	4,849.37	4,641.05	208.32	.....
478	Syracuse.....	People's R. R. Co. of Syracuse	12	.....	69,424.52	69,424.52	69,424.52	.....	.....
479	Syracuse.....	Syracuse and Geddes R'y Co.	12	.....	18,335.47	18,335.47	15,581.02	2,754.45	.....
480	Syracuse.....	Syracuse and Onondaga R'y Co.	12	.....	23,359.78	21,221.60	21,171.60	50.00	2,138.18
482	Syracuse.....	Woodlawn and Butternut Street R'y Co.	12	.....	14,428.62	14,428.62	14,155.68	272.94	.....
484	Troy.....	Troy and Albion Horse R. R. Co.	12	.....	30,284.99	30,232.67	30,232.67	.....	52.32
487	Utica.....	Utica and Mohawk R. R. Co.	12	.....	13,899.41	13,899.41	13,860.16	39.25	.....
NORTH CAROLINA.									
490	Charlotte.....	Charlotte Street R'y Co.	12	.....	10,252.67	9,742.67	9,542.67	200.00	510.00
491	Raleigh.....	Raleigh Street R'y Co.	12	.....	11,500.00	11,500.00	11,500.00	.....	.....
OHIO.									
493	Bellaire.....	Bellaire Street R'y Co.	12	.....	4,380.00	4,380.00	4,380.00	.....	.....
494	Berea.....	Berea Street R. R. Co.	12	.....	2,400.00	2,400.00	2,100.00	300.00	.....
505	Cleveland.....	Woodland Avenue and West Side Street R. R. Co.	12	.....	493,009.86	393,009.86	393,009.86	.....	100,000.00
506	Columbus.....	Columbus Consolidated Street R. R. Co.	12	.....	345,802.40	345,802.40	344,555.50	1,246.90	.....
507	Columbus.....	Glenwood and Greenlawn Street R'y Co.	12	.....	10,195.35	10,195.35	10,195.35	.....	.....
509	Dayton.....	Dayton Street R. R. Co.	12	.....	63,526.00	63,526.00	61,704.73	1,821.27	.....
510	Dayton.....	Fifth Street R. R. Co.	12	.....	60,598.55	59,010.48	59,010.48	.....	1,588.07
511	Dayton.....	Oakwood Street R'y Co.	12	.....	32,660.43	32,660.43	31,359.32	1,301.11	.....
512	Dayton.....	Wayne and Fifth Street R. R. Co.	12	.....	34,147.40	33,925.34	33,925.34	.....	222.06
514	Findlay.....	Findlay Street R'y Co.	12	.....	29,532.50	29,125.50	29,125.50	.....	407.00
520	Lorain.....	Lorain Street R'y Co.	12	.....	3,536.22	3,486.22	3,486.22	.....	50.00
522	Middletown.....	Middletown and Madison Street R'y Co.	12	.....	3,353.00	3,353.00	3,353.00	.....	.....
524	Newark.....	Newark City R'y Co.	12	.....	13,000.00	13,000.00	13,000.00	.....	.....
527	Sandusky.....	Sandusky Street R'y Co.	12	.....	12,409.08	12,409.08	12,383.58	25.50	.....
528	Springfield.....	Citizens' Street R. R. Co.	12	.....	47,116.18	47,116.18	46,301.88	814.30	.....
531	Toledo.....	Toledo Consolidated Street R'y Co.	12	.....	284,710.34	284,710.34	282,840.61	1,869.73	.....
532	Youngstown.....	Youngstown Street R. R. Co.	12	.....	12,123.99	12,123.99	12,123.99	.....	.....
533	Zanesville.....	Zanesville and McIntire Street R'y Co.	12	.....	16,590.00	16,590.00	15,075.00	1,515.00	.....
OREGON.									
535	Astoria.....	Astoria Street R'y Co.	12	.....	12,912.81	12,912.81	12,707.56	205.25	.....
541	Portland.....	Portland Street R'y Co.	12	.....	22,630.00	22,630.00	22,500.00	130.00	.....
542	Portland.....	Transcontinental Street R'y Co.	12		81,115.00	81,115.00	81,115.00		

STREET RAILWAYS.

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TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

EXPENDITURES.											Surplus for period of time covered.	Deficit for period of time cov- ered.	No.
Total.	Operating expenses.		Fixed charges					Payments from net in- come.					
	Amount.	Percent- age of operating expenses to operat- ing in- come.	Total.	Rentals.	Taxes and licenses.	Interest.	Miscella- neous.	Dividends.	Miscella- neous.				
\$752,076.81	\$509,496.50	65.28	\$170,580.31	\$5,618.00	\$34,162.31	\$130,800.00		\$72,000.00		\$37,363.45	441		
662,255.83	479,455.21	68.79	100,300.62		40,300.62	60,000.00		82,500.00		52,648.42	442		
389,390.60	240,733.41	56.82	51,417.19		33,850.52	17,566.67		97,240.00		43,074.08	443		
482,010.20	371,162.39	74.87	105,699.62	7,550.00	26,149.62	72,000.00			\$5,148.19	15,723.96	444		
172,026.42	159,987.12	93.04	12,039.30		7,826.08	4,213.22				1,182.96	445		
281,567.71	213,566.09	82.71	55,501.62	5,525.00	11,704.12	38,272.50			12,500.00		\$9,693.61	446	
3,705.40	3,559.14	103.54	146.26		146.26						268.05	448	
17,572.50	12,769.18	106.73	4,803.32		303.32	4,500.00					5,608.48	451	
11,519.52	9,519.52	112.65	2,000.00		2,000.00						3,068.67	452	
932,927.99	659,276.02	74.81	23,651.97		23,651.97			250,000.00		5,710.70		454	
225,320.41	198,922.54	83.96	26,397.87	12,500.00	13,897.87					17,637.57		455	
9,421.28	4,756.48	51.29	2,664.80		344.30	2,320.50		2,000.00			50.60	456	
891,109.02	714,516.81	78.71	139,352.21	5,399.98	42,648.30	91,303.93		37,240.00		20,859.17		457	
665,931.29	468,931.29	65.03	77,000.00		42,000.00	35,000.00		120,000.00		55,219.64		458	
674,867.72	473,883.61	66.84	140,984.11	85,295.04	26,575.45	29,113.62		60,000.00		49,357.05		461	
19,646.22	13,156.02	70.50	1,047.88		875.38		\$172.50	4,400.00	1,042.32		984.48	462	
5,550.72	5,433.52	94.92	117.20		117.20					173.63		463	
5,804.71	5,555.78	79.53	248.93		248.93					1,181.34		464	
4,491.61	4,195.63	94.22	295.98		192.48	103.50					28.41	465	
4,614.53	4,494.82	103.59	119.71		119.71						275.41	466	
6,851.64	6,290.00	96.86	561.64		186.64	375.00					357.51	467	
482,909.76	387,484.87	70.77	85,424.89		15,724.89	69,700.00		10,000.00		67,501.22		469	
21,853.67	13,901.51	91.06	7,952.16		282.16	7,670.00					6,586.92	470	
12,115.09	9,546.27	112.11	2,568.82		151.31	2,417.51					3,410.03	471	
5,695.46	4,398.10	73.74	1,297.36		227.36	1,070.00				269.19		472	
21,984.10	20,255.39	71.92	1,438.71		1,438.71				290.00	6,179.99		473	
27,100.35	21,347.00	65.43	1,817.35		872.01	945.34		3,936.00		5,525.31		474	
15,760.93	13,311.71	80.44	2,449.22		313.80	2,135.42				1,029.71		475	
23,779.18	22,531.65	77.33	1,247.53		940.03	225.00	82.50			6,433.91		476	
5,405.89	4,036.60	83.24	1,369.29	500.00	65.29	804.00					556.52	477	
55,414.92	53,628.71	77.25	941.65		941.65				844.56	14,009.60		478	
19,993.42	16,645.96	90.79	3,347.46		874.28	2,473.18					1,657.95	479	
21,090.33	14,814.83	69.81	1,375.50		1,375.50			4,900.00		2,269.45		480	
13,177.30	11,359.38	78.73	1,817.92		251.09	1,566.82				1,251.32		482	
26,719.25	23,582.33	78.00	3,136.92		756.92	2,380.00				3,565.74		484	
13,916.42	10,271.04	73.90	1,725.38		242.00	1,483.38		1,920.00			17.01	487	
9,205.00	8,230.00	84.47	975.00	810.00	165.00					1,047.67		490	
11,990.00	11,140.00	96.87	850.00		100.00	750.00					490.00	491	
4,462.94	4,200.00	95.89	262.94		262.94						82.94	493	
2,380.00	1,200.00	50.00	130.00		40.00	90.00		1,050.00		20.00		494	
487,351.05	361,047.05	91.87	600.00		600.00			66,000.00	59,704.00	5,658.81		505	
317,694.33	237,156.88	68.58	35,537.45	1,651.50	4,140.68	29,745.27		45,000.00		28,108.07		506	
10,179.44	8,852.76	86.83	1,326.68			1,326.68				15.91		507	
63,154.35	37,439.00	58.93	486.57		486.57			18,000.00	7,228.78	371.65		509	
50,894.30	32,422.30	54.94	472.00		472.00			18,000.00		9,704.25		510	
32,314.67	30,237.75	92.58	2,076.92	240.00	781.92	1,055.00				345.76		511	
24,040.05	22,317.68	65.78	1,722.37		329.11	1,393.26				10,107.35		512	
24,993.80	18,549.74	63.69	6,444.06		229.48	6,214.58				4,538.70		514	
3,536.22	2,592.25	74.36	134.50		29.50	105.00			809.47			520	
2,869.00	2,783.00	83.00	86.00		86.00					484.00		522	
14,886.28	14,683.00	112.95	203.28		203.28						1,886.28	524	
10,750.46	10,450.30	84.21	300.16		300.16					1,658.62		527	
46,557.57	43,702.23	92.75	855.34	30.00	624.04	201.30		2,000.00		558.61		528	
278,677.64	198,578.85	69.75	80,098.79		5,037.64	75,061.15				6,032.70		531	
9,153.40	8,915.00	73.53	238.40		238.40					2,970.59		532	
15,675.00	14,375.00	86.65	1,300.00		400.00	900.00				915.00		533	
14,999.33	13,517.58	104.68	1,481.75		341.75	1,140.00					2,086.52	535	
20,064.00	19,414.00	85.79	650.00		650.00					2,566.00		541	
72,666.13	71,989.13	88.75	677.00		677.00					8,448.87		542	

STATISTICS OF TRANSPORTATION.

TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		RECEIPTS.				
			Months.	Days.	Total.	From operation.			Rentals and miscellaneous.
						Total.	From passengers.	From other sources.	
PENNSYLVANIA.									
545	Altoona	City Passenger R'y Co.	12		\$21,251.81	\$21,251.81	\$20,543.68	\$708.13	
546	Beaver Falls	Beaver Valley Street R'y Co.	12		24,375.06	24,375.06	24,206.79	168.27	
547	Bradford	Bradford and Kendall Street R'y Co.	12		5,141.38	5,141.38	4,973.20	168.18	
548	Chester	Chester Street R'y Co.	12		49,923.61	49,923.61	49,238.18	685.43	
549	Easton	Easton, South Easton and West End Passenger R'y Co.	12		14,889.55	14,889.55	14,883.55	6.00	
553	Harrisburg	Harrisburg City Passenger R'y Co.	12		45,653.06	45,653.06	42,311.41	3,341.65	
554	Lancaster	Lancaster and Millersville R. R. Co.	12		11,586.74	11,586.74	11,586.74		
555	Lancaster	Lancaster City Street R'y Co.	12		13,010.30	12,972.80	12,822.80	150.00	\$37.50
556	Lancaster	West End Street R'y Co.	12		4,330.54	4,330.54	3,800.54	530.00	
558	Norristown	Citizens' Passenger R'y Co.	12		12,394.84	12,394.84	11,364.90	1,029.94	
559	Norristown	Norristown Passenger R'y Co.	12		9,860.17	9,515.55	9,515.55		344.62
561	Philadelphia	Citizens' Passenger R'y Co.	12		347,147.00	338,354.58	338,354.58		8,792.42
563	Philadelphia	Empire Passenger R'y Co.	12		289,386.70	289,386.70	289,386.70		
565	Philadelphia	Hestonville, Mantua and Fairmount Passenger R. R. Co.	12		336,301.25	313,443.62	313,443.62		22,857.63
567	Philadelphia	Lombard and South Streets Passenger R'y Co.	12		287,086.34	287,086.34	280,902.18	6,184.16	
568	Philadelphia	Manayunk and Roxboro Inclined Plane and R'y Co.	12		18,762.00	18,324.40	18,324.40		437.60
569	Philadelphia	People's Passenger R'y Co.	12		1,195,371.28	1,195,371.28	1,184,984.27	10,387.01	
570	Philadelphia	Philadelphia and Grays Ferry Passenger R'y Co.	12		134,051.25	132,941.25	130,947.86	1,993.39	1,110.00
573	Philadelphia	Ridge Avenue Passenger R'y Co.	12		361,528.19	361,528.19	360,153.34	1,374.85	
574	Philadelphia	Second and Third Streets Passenger R'y Co.	12		576,413.90	576,413.90	566,798.67	9,615.23	
576	Philadelphia	Thirteenth and Fifteenth Streets Passenger R'y Co.	12		515,066.52	515,066.52	507,506.46	7,560.06	
587	Pittsburg	Pittsburg, Allegheny and Manchester Passenger R'y Co.	12		258,803.31	258,096.06	257,886.06	210.00	707.25
589	Pittsburg	Pittsburg and Birmingham Traction Co.	7	12	140,834.11	138,221.24	138,146.24	75.00	2,612.87
590	Pittsburg	Pittsburg and West End Passenger R'y Co.	12		87,186.91	86,931.19	86,931.19		255.72
593	Pittsburg	Pittsburg Union Passenger R'y Co.	12		73,851.21	73,851.21	73,726.21	125.00	
598	Pittston	Pittston Street Car Co.	12		5,478.20	5,478.20	5,180.15	298.05	
601	Reading	Reading City Passenger R'y Co.	12		116,614.80	116,513.30	115,742.15	771.15	101.50
603	Stroudsburg	Stroudsburg Passenger R'y Co.	12		4,972.00	4,972.00	2,430.50	2,541.50	
605	Wilkesbarre	Coalville Passenger R. R. Co.	12		11,874.61	11,537.03	11,537.03		337.58
606	Wilkesbarre	Wilkesbarre and Kingston Passenger R'y Co.	12		32,280.98	32,280.98	31,410.98	870.00	
609	Williamsport	Williamsport Passenger R'y Co.	12		24,053.97	24,053.97	23,841.97	212.06	
610	York	York Street R'y Co.	12		14,103.46	14,103.46	13,768.98	334.48	
RHODE ISLAND.									
612	Pawtucket	Pawtucket Street R'y Co.	12		49,610.51	49,610.51	48,254.49	1,356.02	
614	Providence	Union R. R. Co.	12		869,692.45	857,737.35	857,737.35		11,955.10
615	Woonsocket	Woonsocket Street R'y Co.	12		18,455.86	18,455.86	17,911.75	544.11	
SOUTH CAROLINA.									
616	Charleston	Charleston City R'y Co.	12		80,641.13	80,641.13	80,491.13	150.00	
617	Charleston	Enterprise R. R. Co.	12		47,006.53	47,006.53	42,032.07	4,974.46	
618	Charleston	Middle Street Sullivan's Island R'y Co.	12		4,941.28	4,941.28	4,428.89	512.39	
SOUTH DAKOTA.									
621	Deadwood	Deadwood Street R'y Co.	12		1,000.00	1,000.00	1,000.00		
623	Rapid city	Rapid City Street R. R. Co.	12		794.18	794.18	794.18		
627	Yankton	Yankton Street R'y Co.	2	23	350.00	350.00	350.00		
TENNESSEE.									
630	Chattanooga	City Street R. R. Co.	12		45,835.00	45,835.00	45,625.00	210.00	
631	Clarksville	Clarksville Street R'y Co.	12		6,443.19	6,443.19	6,443.19		
633	Columbia	Columbia Street R'y Co.	12		1,794.68	1,794.68	1,794.68		
636	Knoxville	West End Street R. R. Co.	12		4,886.42	4,886.42	4,826.56	59.86	
TEXAS.									
643	Denison	Denison Street R'y.	12		8,370.76	8,370.76	8,370.76		
644	El Paso	El Paso Street R'y Co.	12		18,044.81	18,044.81	14,961.88	3,082.93	
645	El Paso	Santa Fe Street R'y Co.	12		6,846.24	6,846.24	5,374.00	1,472.24	
649	Galveston	Galveston City R. R. Co.	12		70,367.62	69,575.05	69,575.05		
651	Houston	Houston City Street R'y Co.	12		84,784.53	84,784.53	84,784.53		792.57
655	Paris	Paris R'y Co.	12		10,615.00	10,615.00	10,615.00		
656	San Antonio	Cross Town R. R. Co.	12		1,619.60	1,619.60	62.60	1,557.00	
660	Waco	Waco Street R'y Co.	12		20,654.00	20,654.00	19,754.00	900.00	
661	Waxahachie	Waxahachie Street R'y Co.	12		1,712.50	1,712.50	1,412.50	300.00	
662	Weatherford	Weatherford City and Suburban R. R. Co.	1		180.00	180.00	180.00		
VERMONT.									
664	Burlington	Winooski and Burlington Horse R. R. Co.	12		15,053.44	15,053.44	12,876.44	2,177.00	
665	Rutland	Rutland Street R'y Co.	12		16,503.42	16,503.42	16,222.97	280.45	

STREET RAILWAYS.

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TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

EXPENDITURES.												
Total.	Operating expenses.		Fixed charges.					Payments from net income.		Surplus for period of time covered.	Deficit for period of time covered.	No.
	Amount.	Percent- age of operating expenses to operat- ing in- come.	Total.	Rentals.	Taxes and licenses.	Interest.	Miscella- neous.	Dividends.	Miscella- neous.			
\$21,102.20 21,637.88 5,302.00 45,739.17 14,312.39	\$16,865.56 18,322.92 4,523.27 33,730.32 14,152.03	79.36 75.17 87.98 67.56 95.05	\$496.64 914.96 70.00 1,008.85 160.36	\$100.00 30.00 	\$396.64 914.96 40.00 1,008.85 10.00	 \$150.36	 	\$3,740.00 2,400.00 11,000.00	 \$708.73 	\$149.61 2,737.18 4,184.44 577.16	 \$160.62 	545 546 547 548 549
46,728.55 11,175.16 15,058.45 4,116.24 13,521.73	31,152.34 4,927.51 11,579.81 3,303.24 13,043.13	68.24 42.53 89.26 76.28 105.23	2,101.09 247.95 1,264.42 330.00 478.60	146.75 40.00 320.00 	1,414.52 207.95 266.33 10.00 174.69	539.82 998.09 303.91	 	6,000.00 4,800.00 483.00	7,475.12 1,200.00 2,214.22 	 411.28 214.30 	 2,048.15 	553 554 555 556 558
8,633.97 351,785.01 272,791.10 335,632.25	8,350.53 190,014.51 254,713.60 259,191.36	87.76 56.16 88.02 82.69	283.44 21,770.50 17,977.50 49,457.07	 	176.44 21,770.50 3,977.50 14,470.32	107.00 14,000.00 34,986.75	 	 140,000.00 	 100.00 26,983.82	1,226.20 16,595.60 669.00	 4,638.01 	559 561 563 565
283,149.06	187,664.53	65.37	15,484.53	1,691.07	3,003.87	10,789.59		80,000.00		3,937.28		567
17,446.25	16,957.30	92.54	488.95		302.66	186.29				1,315.75		568
1,062,372.64 137,179.52	728,811.04 97,545.39	60.97 73.37	302,097.93 5,259.18	195,000.00	45,838.53 5,259.18	61,259.40		34,374.95	31,463.67	132,998.61	3,128.27	569 570
357,051.27 564,587.71	187,696.12 332,670.92	51.92 57.71	19,355.15 30,478.79		19,355.15 30,478.79			150,000.00 201,438.00		4,476.92 11,826.19		573 574
508,723.48	282,056.07	54.76	34,756.83		24,061.83	10,695.00		190,000.00	1,910.58	6,343.04		576
247,037.62	165,472.09	64.11	29,065.53		15,065.53	14,000.00		52,500.00		11,765.69		587
112,285.21 87,085.16	78,818.05 53,499.55	57.02 61.54	33,467.16 7,035.15	120.50	5,988.41 3,285.15	27,358.25 3,750.00		16,000.00	10,550.46	28,548.90 101.75		589 590
80,728.69 5,374.29 109,834.95 4,860.56	68,320.68 4,476.45 90,732.88 4,410.06	92.51 81.71 77.87 88.70	12,408.01 92.58 7,102.07 194.50	2,500.00	4,394.30 85.11 1,427.07 92.50	5,513.71 7.47 5,600.00 42.00		400.00 12,000.00 256.00	405.26	103.91 6,779.85 111.44		593 598 601 603
11,359.07 28,180.51 21,571.08 12,319.61	10,020.51 15,371.70 14,272.73 10,024.56	86.86 47.62 59.34 71.08	898.35 1,677.12 2,798.35 795.05		353.46 1,677.12 693.06 144.64	544.89 1,613.32 650.41		6,000.00 4,500.00 1,500.00	5,131.69	515.54 4,100.47 2,482.89 1,783.85		605 606 609 610
46,509.06 809,435.55 18,882.63	43,939.56 672,938.59 17,066.10	88.57 78.46 92.47	2,569.50 16,496.96 1,816.53		1,098.95 16,496.96 341.53	1,470.55 1,475.00		120,000.00		3,101.45 60,256.90		612 614 615
72,170.00 48,112.73 3,652.71	51,065.00 42,887.21 2,686.21	63.32 91.24 54.36	15,105.00 5,225.52 216.50		7,650.00 3,025.52 216.50	7,455.00 2,200.00		6,000.00 750.00		8,471.13 1,288.57		616 617 618
1,520.00 865.33 525.00	1,520.00 732.68 525.00	152.00 92.26 150.00		132.65								621 623 627
48,015.00 6,395.90 1,757.73 6,192.65	28,015.00 5,448.90 1,568.03 4,951.96	61.12 84.57 87.37 101.34	20,000.00 317.00 189.70 1,240.69		2,000.00 317.00 189.70 326.93	18,000.00 913.76		630.00		47.29 36.95	2,180.00	630 631 633 636
5,814.54 14,772.21 5,096.96 55,217.15 73,623.98	5,657.04 14,234.27 5,096.96 40,752.70 60,908.98	67.58 78.88 74.45 58.57 71.84	157.50 537.94 14,464.45 12,715.00		157.50 537.94 1,800.00 2,175.00	 11,287.95 9,940.00				2,556.22 3,272.60 1,749.28 15,150.47 11,160.55		643 644 645 649 651
7,310.00 2,147.70 20,538.05 1,697.50 330.00	7,030.00 2,064.00 15,000.00 1,447.50 330.00	66.23 127.44 72.63 84.53 183.33	280.00 83.70 2,050.00 250.00		280.00 83.70 1,100.00	 950.00 250.00		3,200.00	288.05	3,305.00 115.95 15.00	528.10	655 656 660 661 662
14,023.64 15,495.24	11,240.00 11,694.95	74.67 70.86	1,183.64 2,032.29		283.64 352.29	900.00 1,680.00		1,600.00	1,768.00	1,029.80 1,008.18		664 665

STATISTICS OF TRANSPORTATION.

TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		RECEIPTS.				
			Months.	Days.	Total.	From operation.			Rentals and miscellaneous.
						Total.	From passengers.	From other sources.	
VIRGINIA.									
668	Lynchburg	Lynchburg Street R'y Co	12	.....	\$14,253.65	\$14,253.65	\$14,253.65	.....	.....
669	Norfolk	Berkley Street R'y Co	1	17	532.78	532.78	519.12	.....	\$13.66
670	Norfolk	Norfolk City R. R. Co	12	.....	58,813.70	58,813.70	57,683.09	.....	1,130.61
671	Norfolk	Suburban and City Railway and Improvement Co.	12	.....	23,033.92	23,033.92	22,546.42	.....	487.50
673	Richmond	Richmond and Manchester R'y Co.....	12	.....	26,194.04	26,194.04	26,110.71	.....	83.33
675	Roanoke	Roanoke Street R'y Co	12	.....	3,541.42	3,541.42	3,361.48	.....	179.94
WASHINGTON.									
676	Olympia	Olympia R'y Co	12	.....	1,508.00	1,508.00	1,500.00	.....	8.00
684	Spokane	Spokane Street R'y Co	6	.....	6,500.00	6,500.00	6,500.00	.....	.....
685	Wallawalla	Wallawalla Street Railway and Investment Co.	12	.....	6,112.00	6,112.00	6,112.00	.....	.....
WEST VIRGINIA.									
687	Parkersburg	Park City Street R'y.....	12	.....	7,981.65	7,981.65	7,881.65	.....	100.00
WISCONSIN.									
693	Fond du Lac	Fond du Lac Street R'y Co	12	.....	9,686.75	9,686.75	9,536.75	.....	150.00
694	Lacrosse	Lacrosse and Onalaska Street R'y Co.....	1	.....	279.24	279.24	279.24	.....	.....
695	Lacrosse	Lacrosse City R'y Co	12	.....	33,918.31	33,918.31	33,578.31	.....	340.00
699	Milwaukee	Milwaukee City R. R. Co	12	.....	327,789.29	325,335.57	325,335.57	.....	\$2,453.72
702	Oshkosh	Oshkosh Street R. R. Co	12	.....	18,743.73	18,532.94	18,532.94	.....	210.79
703	Racine	Belle City Street R'y Co	12	.....	25,150.00	25,150.00	25,000.00	.....	150.00
WYOMING.									
706	Cheyenne.....	Cheyenne Street R. R. Co	6		3,784.70	3,784.70	3,634.70		150.00

STREET RAILWAYS.

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TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

EXPENDITURES.										Surplus for period of time covered.	Deficit for period of time cov- ered.	No.
Total.	Operating expenses.		Fixed charges.					Payments from net in- come.				
	Amount.	Percent- age of operating expenses to operat- ing in- come.	Total.	Rentals.	Taxes and licenses.	Interest.	Miscella- neous.	Dividends.	Miscella- neous.			
\$12,338.79	\$11,456.55	80.38	\$882.24		\$102.44	\$779.80				\$1,914.86	668	
408.43	408.43	76.66								124.35	669	
57,210.35	44,312.88	75.34	9,153.80		1,653.80	7,500.00			\$3,743.67	1,603.35	670	
22,301.69	19,044.10	82.68	307.84		304.93	2.91			2,949.75	732.23	671	
24,497.78	18,821.96	71.86	245.82		245.82			\$4,230.00	1,200.00	1,696.26	673	
7,346.11	7,220.11	203.88	126.00		126.00						675	
3,920.00	3,920.00	259.95									2,412.00	676
6,600.00	6,000.00	92.31	600.00	\$600.00							100.00	684
10,164.10	10,118.00	165.54	46.10		46.10						4,052.10	685
6,225.95	5,478.95	68.64	747.00		18.00	729.00				1,755.70		687
9,278.27	9,038.27	93.31	240.00			240.00				408.48		693
286.73	286.73	102.68									7.49	694
32,718.94	22,250.64	65.60	2,468.30	45.00	844.95	1,578.35		8,000.00		1,199.37		695
296,561.48	215,467.99	66.23	57,093.49		6,883.49	50,210.00		24,000.00		31,227.81		699
16,584.61	12,849.86	69.34	2,079.25		279.25	1,800.00		1,655.50		2,159.12		702
25,575.00	19,150.00	76.14	425.00		425.00			6,000.00			425.00	703
3,277.00	3,277.00	86.59								507.70		706

TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		RECEIPTS.				
			Months.	Days.	Total.	From operation.			Rentals and miscellaneous.
						Total.	From passengers.	From other sources.	
COLORADO.									
83	Denver	Denver Tramway Co	12		\$161, 114. 24	\$161, 114. 24	\$160, 959. 05	\$155. 19	
CONNECTICUT.									
87	Birmingham	Derby Street R'y Co	12		17, 941. 71	17, 941. 71	16, 162. 20	1, 779. 51	
DELAWARE									
104	Wilmington	Wilmington City R'y Co	6		14, 802. 56	14, 802. 56	14, 494. 85	307. 71	
DIST. OF COLUMBIA.									
109	Washington	Eckington and Soldiers' Home R'y Co	12		31, 401. 27	31, 401. 27	31, 401. 27		
110	Washington	Georgetown and Tennallytown R'y Co	4	6	8, 975. 88	8, 975. 88	8, 975. 88		
GEORGIA.									
121	Atlanta	Atlanta and Edgewood Street R. R. Co	10	9	19, 570. 00	19, 570. 00	19, 570. 00		
123	Atlanta	Fulton County Street R. R. Co	12		51, 670. 90	51, 670. 90	51, 670. 90		
ILLINOIS.									
150	Decatur	Citizens' Electric Street R'y Co	12		31, 660. 52	31, 660. 52	31, 660. 52		
151	East Saint Louis ..	Saint Louis and East Saint Louis Electric R'y Co ..	12		48, 814. 75	48, 814. 75	48, 814. 75		
158	Peoria	Central R'y Co	12		129, 649. 75	129, 649. 75	126, 849. 80	2, 799. 95	
INDIANA.									
166	Elkhart	Citizens' Street R'y Co	12		8, 422. 51	8, 422. 51	8, 422. 51		
174	Lafayette	Lafayette Street R'y Co	12		13, 489. 18	12, 599. 04	12, 599. 04		\$890. 14
IOWA.									
191	Council Bluffs ...	Omaha and Council Bluffs Railway and Bridge Co.	12		185, 400. 00	185, 400. 00	154, 860. 00	30, 540. 00	
KANSAS.									
222	Topeka	Topeka Rapid Transit R'y Co	12		79, 175. 04	78, 935. 04	78, 935. 04		240. 00
MASSACHUSETTS.									
249	Attleboro	Attleboro, North Attleboro and Wrentham Street R'y Co.	6		23, 215. 62	23, 215. 62	23, 084. 60	131. 02	
250	Beverly	Beverly and Danvers Street R'y Co	11		3, 703. 70	3, 043. 70	3, 043. 70		660. 00
252	Boston	Boston and Revere Electric Street R'y Co	12		6, 908. 97	6, 908. 97	6, 908. 97		
257	Boston	Quincy and Boston Street R'y Co	12		29, 036. 78	29, 036. 78	28, 503. 49	533. 29	
261	Brockton	East Side Street R'y Co	12		15, 573. 11	13, 074. 67	12, 697. 85	376. 82	2, 498. 44
270	Marlboro	Marlboro Street R'y Co	12		16, 097. 75	15, 988. 45	15, 988. 45		109. 30
274	North Adams	Hoosac Valley Street R'y Co	12		30, 906. 62	30, 906. 62	30, 143. 73	762. 89	
278	Plymouth	Plymouth and Kingston Street R'y Co	12		18, 617. 00	18, 617. 00	18, 494. 00	123. 00	
MICHIGAN.									
283	Adrian	Adrian City Electric Belt R'y Co	9		6, 095. 05	6, 095. 05	6, 095. 05		
287	Detroit	East Detroit and Grossepoint R'y Co	12		5, 002. 39	5, 002. 39	5, 002. 39		
289	Detroit	Highland Park R'y Co	12		5, 592. 27	5, 592. 27	5, 592. 27		
294	Port Huron	Gratiot Electric R'y Co	12		19, 280. 93	19, 280. 93	19, 130. 93	150. 00	
297	Sault Ste. Marie ..	Sault Ste. Marie Street R'y Co	12		5, 839. 56	5, 839. 56	5, 450. 84	388. 72	
MINNESOTA.									
305	Stillwater	Stillwater Street R'y Co	12		16, 909. 00	16, 909. 00	16, 509. 00	400. 00	
MISSOURI.									
319	Kansas city	North East Street R'y Co	9	24	44, 423. 70	44, 343. 70	44, 343. 70		80. 00
323	Kansas city	Vine Street Motor R'y Co	6		5, 602. 85	5, 602. 85	5, 602. 85		
325	Saint Joseph	Wyatt Park R'y Co	12		44, 460. 51	44, 460. 51	44, 070. 51	390. 00	
NEW YORK.									
406	Brooklyn	Jamaica and Brooklyn Road Co	12		30, 098. 95	30, 098. 95	20, 989. 70	9, 109. 25	
425	Ithaca	Ithaca Street R. R.	12		6, 058. 87	6, 058. 87	6, 058. 87		
468	Rochester	Rochester Electric R'y Co	11	28	31, 093. 38	31, 093. 38	31, 093. 38		
481	Syracuse	Third Ward R'y Co	12		36, 099. 42	36, 099. 42	36, 099. 42		
488	Utica	Utica Belt Line Street R. R. Co	4		40, 659. 29	40, 659. 29	40, 383. 55	275. 74	
OHIO.									
492	Akron	Akron Street R. R. Co	12		95, 300. 00	95, 300. 00	95, 000. 00	300. 00	
495	Canton	Canton Street R'y Co. and Lakeside Street R. R. Co.	9	4	19, 904. 56	19, 904. 56	19, 904. 56		
496	Cincinnati	Cincinnati Incline Plane R'y Co	12		97, 663. 83	97, 663. 83	97, 663. 83		
500	Cleveland	Broadway and Newburg Street R. R. Co	12		156, 698. 19	156, 698. 19	156, 698. 19		
503	Cleveland	East Cleveland R. R. Co	12		441, 434. 97	441, 434. 97	434, 319. 81	7, 115. 16	
504	Cleveland	Lake View and East Cleveland Street R'y Co ..	10	24	8, 746. 30	8, 746. 30	8, 746. 30		
508	Dayton	Dayton and Soldiers' Home R. R. Co	2	24	1, 790. 32	1, 790. 32	1, 790. 32		
519	Lima	Lima Street Railway, Motor and Power Co ..	12		16, 052. 57	16, 052. 57	16, 052. 57		
523	Newark	Newark and Granville Electric Street R'y Co ..	6	8	2, 380. 55				

TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS.

EXPENDITURES.										Surplus for period of time covered.	Deficit for period of time covered.	No.
Total.	Operating expenses.		Fixed charges.					Payments from net income.				
	Amount.	Percent- age of operating expenses to operat- ing in- come.	Total.	Rentals.	Taxes and licenses.	Interest.	Miscella- neous.	Dividends.	Miscella- neous.			
\$89,592.98	\$89,592.98	55.61								\$71,521.26		83
31,073.91	19,694.47	109.77	\$4,190.66	\$280.00	\$553.00	\$3,357.66			\$7,188.78		\$13,132.20	87
13,806.87	11,514.37	77.79	1,155.00		155.00	1,000.00		\$1,137.50		995.69		104
30,401.30 8,728.70	30,364.98 8,728.70	96.70 97.25	36.32		36.32					999.97 247.18		109 110
14,905.00 53,452.64	13,795.00 45,671.55	70.49 88.39	1,110.00 7,781.09	150.00 460.00	100.00 1,321.09	860.00 6,000.00				4,665.00	1,781.74	121 123
33,186.21 45,659.27	27,412.19 23,659.27	86.58 48.47	5,774.02 4,500.00		1,065.00	4,708.42 4,500.00		17,500.00		3,155.48	1,525.69	150 151
81,226.59	57,212.76	44.13	24,013.83	240.00	2,749.19	21,024.64				48,423.16		158
8,664.24 21,791.74	8,094.98 9,337.16	96.11 74.11	569.26 3,866.91		89.26 445.91	480.00 3,421.00			8,587.67		241.73 8,302.56	166 174
184,386.00	91,155.00	49.17	48,231.00	6,000.00	5,731.00	36,500.00		45,000.00		1,014.00		191
75,607.01	51,071.97	64.70	24,535.04		2,949.78	21,585.26				3,568.03		222
20,008.56	12,640.57	54.45	1,367.99		326.34	1,041.65		6,000.00		3,207.06		249
7,384.77 6,501.96 24,568.72	7,119.77 5,066.90 21,223.48	233.92 73.34 73.09	265.00 1,435.06 3,345.24			265.00 1,286.55 450.00					3,681.07	250 252 257
15,527.99 16,750.30 22,597.83 15,659.08	12,470.87 13,516.72 19,340.55 14,578.00	95.38 84.54 62.58 78.30	7.12 2,733.58 3,257.28 1,081.08		7.12 483.58 138.78 206.08				3,050.00	45.12		261 270 274 278
4,840.00 10,833.64 7,325.80 19,280.93 5,135.77	3,850.00 7,679.05 6,036.86 12,119.61 5,118.19	63.17 153.51 107.95 62.86 87.65	990.00 3,154.59 1,288.94 3,598.35 17.58			990.00 3,111.50 1,101.85 3,270.95						283 287 289 294 297
17,064.00	13,464.00	79.63	3,600.00			3,600.00					155.00	305
53,656.25 9,496.16 41,600.61	40,146.86 9,496.16 34,722.37	90.54 169.49 78.10	13,509.39 6,436.36		537.14 436.36	12,972.25 6,000.00					9,232.55 3,893.31	319 323 325
25,443.72 6,059.32 22,594.36 29,359.31 41,117.13	25,443.72 4,770.86 22,149.02 23,401.81 28,313.23	84.53 78.74 71.23 64.83 69.64	1,288.46 445.34 5,957.50 7,968.44		88.46 445.34 272.50 441.78	1,200.00 5,685.00 2,500.00						406 425 468 481 488
111,700.00 18,280.74	94,700.00 18,280.74	99.37 91.84	17,000.00		1,000.00	16,000.00					16,400.00	492 495
126,078.26 138,259.55 399,208.46	94,055.54 111,674.10 308,042.88	96.31 71.27 69.78	32,022.72 3,153.69 38,667.08	1,020.00	1,252.72 3,153.69 6,986.65	29,750.00 31,680.43		23,431.76 52,498.50		18,438.64 42,226.51	28,414.43	496 500 503
4,689.69 1,010.08 13,508.92 1,620.00	4,689.69 1,010.08 13,085.49 1,600.00	53.62 56.42 81.52 67.21			423.43 20.00					4,056.61 780.24 2,543.65 760.55		504 508 519 523

STATISTICS OF TRANSPORTATION.

TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS—Continued.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		RECEIPTS.				
			Months.	Days.	Total.	From operation.			Rentals and miscellaneous.
						Total.	From passengers.	From other sources.	
OREGON.									
536	Portland.....	Metropolitan R'y Co	6	.....	\$22,014.16	\$22,014.16	\$21,993.16	\$21.00	.....
PENNSYLVANIA.									
551	Erie	Erie Electric Motor Co.	12	.....	75,147.00	74,603.50	74,603.50	.....	\$543.50
552	Harrisburg	East Harrisburg Passenger R'y Co	12	.....	54,692.72	54,692.72	52,098.90	2,593.82	.....
582	Pittsburg.....	Federal Street and Pleasant Valley Passenger R'y Co.	6	.....	158,979.76	158,979.76	137,619.08	21,360.68	.....
595	Pittsburg.....	Second Avenue Passenger R'y Co.	3	26	23,031.57	23,025.00	23,025.00	.....	6.57
597	Pittsburg.....	Suburban Rapid Transit Street R'y Co.	12	.....	6,550.00	6,550.00	6,550.00	.....	.....
599	Reading	East Reading R. R. Co.	12	.....	9,649.45	9,649.45	9,649.45	.....	.....
602	Scranton	People's Street R'y Co.	12	.....	107,959.65	107,959.65	106,008.65	1,951.00	.....
607	Wilkesbarre	Wilkesbarre and Suburban Street R'y Co.	12	.....	19,105.98	19,105.98	18,799.98	306.00	.....
RHODE ISLAND.									
611	Newport.....	Newport Street R'y Co.	12	.....	37,945.00	37,945.00	37,134.66	810.34	.....
TENNESSEE.									
629	Chattanooga.....	Chattanooga Electric Street R. R. Co.	12	.....	55,000.00	55,000.00	55,000.00	.....	.....
641	Nashville.....	United Electric R'y	12	.....	321,250.90	321,250.90	321,250.90	.....	.....
TEXAS.									
652	Laredo	Laredo Improvement Co. (St. R'y Div.)	12	.....	21,320.00	21,320.00	20,000.00	1,320.00	.....
657	Sherman	College Park Electric Belt Line.....	3	.....	3,931.15	3,831.15	3,831.15	.....	100.00
UTAH.									
663	Salt Lake city	Salt Lake City R. R. Co	9	14	93,051.50	93,051.50	92,352.20	699.30	.....
VIRGINIA.									
667	Danville	Danville Street Car Co.	12	.....	15,838.87	15,838.87	15,733.10	105.77	.....
WASHINGTON.									
680	Seattle.....	Seattle Electric Railway and Power Co	12	.....	93,145.30	93,145.30	88,554.57	4,590.73	.....
681	Spokane	Ross Park Street R'y Co	7	14	11,743.00	11,743.00	11,743.00	.....	.....
WISCONSIN.									
691	Appleton	Appleton Electric Street R'y Co	12		6,705.00	6,705.00	6,705.00		

STREET RAILWAYS.

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TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS—Continued.

EXPENDITURES.												
Total.	Operating expenses.		Fixed charges.					Payments from net income.		Surplus for period of time covered.	Deficit for period of time covered.	No.
	Amount.	Percentage of operating expenses to operating income.	Total.	Rentals.	Taxes and licenses.	Interest.	Miscellaneous.	Dividends.	Miscellaneous.			
\$19,019.98	\$16,364.21	74.33	\$2,655.77	-----	\$300.00	\$2,167.77	\$188.00	-----	-----	\$2,994.18	-----	536
67,282.94	47,151.84	63.20	20,131.10	-----	1,621.10	18,510.00	-----	-----	-----	7,864.06	-----	551
41,307.23	28,531.04	52.17	1,526.19	-----	1,495.94	30.25	-----	\$11,250.00	-----	13,385.49	-----	552
118,564.93	95,109.48	59.82	23,455.45	\$692.00	7,166.79	15,596.66	-----	-----	-----	40,414.83	-----	582
14,291.29	13,815.00	60.00	476.29	233.34	242.95	-----	-----	-----	-----	8,740.28	-----	595
2,633.70	2,619.37	39.99	14.33	-----	14.33	-----	-----	-----	-----	3,916.30	-----	597
8,250.70	6,475.70	67.11	95.00	-----	95.00	-----	-----	1,680.00	-----	1,398.75	-----	599
97,279.15	67,554.96	62.57	13,724.19	-----	1,724.19	12,000.00	-----	16,000.00	-----	10,680.50	-----	602
19,836.42	15,060.03	78.82	499.68	-----	128.93	370.75	-----	-----	\$4,276.71	-----	\$730.44	607
39,434.81	35,233.73	92.85	2,101.08	1,040.33	639.00	421.75	-----	2,100.00	-----	-----	1,489.81	611
48,800.00	38,995.00	70.90	9,805.00	-----	805.00	9,000.00	-----	-----	-----	6,200.00	-----	629
359,957.54	222,400.88	69.23	80,599.15	-----	8,599.15	72,000.00	-----	-----	56,957.51	-----	38,706.64	641
15,550.00	15,550.00	72.94	-----	-----	-----	-----	-----	-----	-----	5,770.00	-----	652
2,720.00	2,720.00	71.00	-----	-----	-----	-----	-----	-----	-----	1,211.15	-----	657
79,674.44	76,039.38	81.72	3,635.06	-----	1,363.84	2,271.22	-----	-----	-----	13,377.06	-----	663
13,191.19	11,098.64	70.07	92.55	-----	92.55	-----	-----	2,000.00	-----	2,647.68	-----	667
78,892.08	61,763.26	66.31	7,298.36	-----	1,677.91	5,620.45	-----	9,830.46	-----	14,253.22	-----	680
27,557.50	24,110.00	205.31	3,447.50	1,926.50	-----	1,521.00	-----	-----	-----	-----	15,814.50	681
10,914.00	8,717.00	130.01	2,197.00	-----	427.00	1,770.00	-----	-----	-----	-----	4,209.00	691

STATISTICS OF TRANSPORTATION.

TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued.

CABLE RAILWAYS.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		RECEIPTS.				
			Months.	Days.	Total.	From operations.			Rentals and miscellaneous
						Total.	From passengers.	From other sources.	
CALIFORNIA.									
33	Los Angeles	Second Street Cable R. R. Co.....	3	11	\$6,600.55	\$6,600.55	\$6,574.55	\$26.00	-----
34	Los Angeles	Temple Street Cable R'y Co.....	12	-----	50,163.38	50,163.38	48,807.00	1,356.38	-----
38	Oakland	Oakland R. R. Co.....	12	-----	67,411.85	67,063.40	67,063.40	-----	\$348.45
58	San Francisco	California Street Cable R. R. Co.....	12	-----	163,383.45	162,633.45	162,633.45	-----	750.00
68	San Francisco	Sutter Street R'y Co.....	12	-----	520,367.11	501,524.55	501,524.55	-----	18,842.56
COLORADO.									
81	Denver	Denver City Cable R'y Co.....	12	-----	300,757.85	296,673.46	296,673.46	-----	4,084.39
83	Denver	Denver Tramway Co.....	12	-----	387,048.63	385,348.63	384,140.62	1,208.01	1,700.00
DIST. OF COLUMBIA.									
112	Washington	Washington and Georgetown R. R. Co.....	8	-----	49,687.77	49,687.77	49,687.77	-----	-----
IOWA.									
197	Dubuque	Eleventh Street Elevated R. R.	12	-----	2,194.40	2,194.40	2,194.40	-----	-----
MICHIGAN.									
291	Grand Rapids.....	Valley City Street and Cable R'y Co	12	-----	31,875.17	31,875.17	31,875.17	-----	-----
MISSOURI.									
315	Kansas city.....	Grand Avenue R'y Co.....	12	-----	337,182.74	337,182.74	335,914.64	1,268.10	-----
317	Kansas city.....	Kansas City Cable R'y Co.....	12	-----	479,983.14	479,983.14	457,048.95	22,934.19	-----
334	Saint Louis	Missouri R. R. Co.....	12	-----	444,870.24	444,870.24	444,870.24	-----	-----
338	Saint Louis	Saint Louis and Suburban R'y	12	-----	212,646.54	212,646.54	203,808.45	8,838.09	-----
OHIO.									
499	Cincinnati	Mount Auburn Cable R'y Co.....	12	-----	114,200.00	114,200.00	113,700.00	500.00	-----
PENNSYLVANIA.									
583	Pittsburg.....	Fort Pitt Inclined Plane R'y Co.....	12	-----	9,712.55	9,712.55	8,499.60	1,212.95	-----
584	Pittsburg.....	Monongahela Inclined Plane Co.....	12	-----	54,344.93	53,457.75	42,943.65	10,514.10	887.18
592	Pittsburg.....	Pittsburg Traction Co.....	12	-----	387,416.81	387,416.81	385,112.20	2,304.61	-----
594	Pittsburg.....	Saint Clair Inclined Plane Co.....	12	-----	17,512.75	17,512.75	14,415.20	3,097.55	-----
WASHINGTON.									
677	Seattle.....	Front Street Cable R'y Co.....	12	-----	73,000.00	73,000.00	73,000.00	-----	-----
678	Seattle.....	Lake Washington Cable R. R. Co.....	10	-----	74,336.50	74,336.50	74,336.50	-----	-----
679	Seattle.....	Madison Street Cable R'y Co.....	2	25	13,718.00	13,718.00	13,718.00	-----	-----

a Includes taxes paid for 1889, whereas Table 9 only shows for 1890.

STREET RAILWAYS.

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TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued.

CABLE RAILWAYS.

EXPENDITURES.												Surplus for period of time covered.	Deficit for period of time covered.	No.
Total.	Operating expenses.		Fixed charges.					Payments from net income.						
	Amount.	Percent- age of operating expenses to operat- ing income.	Total.	Rentals.	Taxes and licenses.	Interest.	Miscella- neous.	Dividends.	Miscella- neous.					
\$10,797.39 59,410.01 65,209.80 160,154.97 507,529.53	\$10,761.07 51,242.41 57,697.94 93,828.81 355,415.13	163.03 102.15 86.03 57.69 70.87	\$36.32 8,167.60 7,511.86 3,737.16 52,114.40		\$36.32 1,167.60 2,511.86 3,737.16 7,735.15		\$7,000.00 5,000.00			\$60,000.00 100,000.00	\$2,589.00	\$4,196.84 9,246.63 \$2,202.05 3,228.48 12,837.58	33 34 38 58 68	
265,970.94 338,285.82	173,018.64 273,743.65	58.32 71.04	92,952.30 64,542.17		5,295.31 5,435.07	87,656.99 59,106.50						34,786.91 48,762.81	81 83	
22,699.78	13,949.78	28.07	8,750.00		3,750.00	5,000.00						26,987.99	112	
2,159.40	2,124.40	96.81	35.00		35.00							35.00	197	
47,031.26	39,745.11	124.69	7,286.15		615.30	6,670.85						15,156.09	291	
342,778.90 456,631.22 405,963.12 159,099.39	225,069.39 343,229.99 290,597.57 145,299.39	66.75 71.51 65.32 68.33	63,709.51 65,215.23 51,365.55 13,800.00		3,709.51 8,015.23 10,840.25	60,000.00 57,200.00 39,000.00 13,800.00		54,000.00 47,187.00 64,000.00	999.00			5,596.16 23,351.92 38,907.12 53,547.15	315 317 334 338	
101,390.00	80,000.00	70.05	21,390.00		1,850.00	19,540.00						12,810.00	499	
8,831.89 38,741.72 257,776.50 12,025.87	6,632.91 18,940.40 200,093.65 10,251.11	68.29 35.43 51.65 58.54	2,198.98 5,401.32 57,682.85 1,774.76		398.98 1,443.82 17,310.13 274.76	1,800.00 3,957.50 40,372.72 1,500.00		8,400.00	6,000.00			880.66 15,603.21 129,640.31 5,486.88	583 584 592 594	
66,125.00 138,137.00 9,326.04	45,625.00 31,031.95 9,326.04	62.50 41.75 67.98	20,500.00 16,326.79		2,500.00 620.60	18,000.00 15,706.19			90,778.26			6,875.00 63,800.50 4,391.96	677 678 679	

STATISTICS OF TRANSPORTATION.

TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued.

STEAM PASSENGER RAILWAYS.

No.	STATES AND CITIES.	Name of road.	LENGTH OF TIME COVERED BY REPORT.		RECEIPTS.				
			Months.	Days.	Total.	From operation.			Rentals and miscellaneous.
						Total.	From passengers.	From other sources.	
ALABAMA.									
4	Birmingham.....	East Birmingham Land and R. R. Co.....	12	-----	\$29,380.00	\$29,200.00	\$28,000.00	\$1,200.00	\$180.00
5	Birmingham.....	Highland Avenue and Belt R. R. Co.....	12	-----	41,776.85	41,776.85	41,051.85	725.00	-----
6	Birmingham.....	North Birmingham Street R. R. Co.....	12	-----	26,619.90	26,619.90	23,534.67	3,085.23	-----
12	Sheffield.....	Sheffield Street R'y Co.....	12	-----	3,600.00	3,600.00	3,600.00	-----	-----
ARKANSAS.									
19	Little Rock.....	City Electric Street R'y Co.....	12	-----	10,200.00	10,200.00	10,200.00	-----	-----
CALIFORNIA.									
26	Los Angeles.....	Cahuenga Valley R. R. Co.....	2	15	651.60	651.60	651.60	-----	-----
32	Los Angeles.....	San Gabriel Valley Rapid Transit R'y.....	1	-----	1,821.58	1,821.58	1,155.75	665.83	-----
38	Oakland.....	Oakland R. R. Co.....	12	-----	6,551.15	6,551.15	6,551.15	-----	-----
46	Pomona.....	Pomona Street R. R. Co.....	12	-----	1,871.55	1,871.55	1,736.40	135.15	-----
55	San Bernardino.....	San Bernardino, Arrowhead and Waterman R. R. Co.....	12	-----	2,903.85	2,903.85	2,903.85	-----	-----
56	San Bernardino.....	Southern California Motor Road Co.....	1	-----	2,456.74	2,456.74	2,456.74	-----	-----
COLORADO.									
80	Denver.....	Denver and Berkeley Park Rapid Transit Co.....	12	-----	22,853.40	22,853.40	22,728.40	125.00	-----
FLORIDA.									
119	Tampa.....	Tampa Street R'y Co.....	12	-----	19,343.09	19,343.09	19,343.09	-----	-----
GEORGIA.									
130	Lithia Springs.....	Salt Springs and Bowden Lithia R. R.....	4	-----	750.00	750.00	750.00	-----	-----
131	Milledgeville.....	Milledgeville and Asylum Dummy R. R. Co.....	12	-----	13,400.00	13,400.00	9,600.00	3,800.00	-----
INDIANA.									
168	Evansville.....	Evansville, Suburban and Newburg R'y Co.....	12	-----	19,864.96	19,864.96	18,000.00	1,864.96	-----
179	Muncie.....	Muncie Street R'y Co.....	8	-----	6,493.00	6,493.00	6,493.00	-----	-----
IOWA.									
188	Cedar Rapids.....	Cedar Rapids and Marion R'y.....	12	-----	24,955.85	24,955.85	23,348.33	1,607.52	-----
190	Council Bluffs.....	Lake Manawa R'y Co.....	12	-----	16,000.00	16,000.00	16,000.00	-----	-----
194	Des Moines.....	Des Moines Belt Line R'y Co.....	12	-----	11,289.15	11,289.15	11,289.15	-----	-----
KANSAS.									
220	Topeka.....	Topeka Belt R'y Co.....	12	-----	519.93	519.93	519.93	-----	-----
LOUISIANA.									
236	New Orleans.....	New Orleans, Spanish Fort and Lake R. R. Co.....	12	-----	13,414.60	13,414.60	13,275.70	138.90	-----
MASSACHUSETTS.									
276	Onset.....	Onset Street R'y Co.....	12	-----	1,859.44	1,859.44	1,585.00	274.44	-----
MINNESOTA.									
301	Minneapolis.....	Minneapolis, Lyndale and Minnetonka R'y Co.....	12	-----	146,142.40	146,142.40	146,142.40	-----	-----
MISSOURI.									
314	Kansas city.....	East Fifth Street R'y Co.....	12	-----	22,815.95	22,815.95	22,815.95	-----	-----
315	Kansas city.....	Grand Avenue R'y Co.....	12	-----	4,784.55	4,784.55	4,784.55	-----	-----
316	Kansas city.....	Kansas City and Independence Rapid Transit R'y.....	12	-----	94,038.94	94,038.94	83,968.64	10,070.30	-----
338	Saint Louis.....	Saint Louis and Suburban R'y.....	12	-----	50,359.46	50,359.46	44,384.20	5,975.26	-----
NEW JERSEY.									
373	Jersey city.....	North Hudson County R'y Co.....	12	-----	23,573.00	23,573.00	23,573.00	-----	-----
NEW YORK.									
399	Brooklyn.....	Brooklyn Elevated R. R. Co.....	12	-----	1,574,489.03	1,567,511.48	1,544,476.75	23,034.73	6,977.55
403	Brooklyn.....	Fulton Elevated R. R. Co.....	12	-----	2,149.20	-----	-----	-----	2,149.20
407	Brooklyn.....	Kings County Elevated R'y Co.....	12	-----	716,706.91	716,220.89	705,893.75	10,327.14	486.02
411	Brooklyn.....	Sea View R. R. Co.....	12	-----	14,217.52	14,217.52	13,745.53	471.99	-----
449	New York.....	Manhattan R'y Co.....	12	-----	9,388,681.60	9,302,681.60	9,291,681.60	11,000.00	86,000.00
450	New York.....	Metropolitan Elevated R'y Co.....	12	-----	63,960.55	-----	-----	-----	63,960.55
459	New York.....	Suburban Rapid Transit Co.....	12	-----	207,060.80	207,060.80	207,060.80	-----	-----
OREGON.									
538	Portland.....	Mount Tabor Street R. R. Co.....	12	-----	12,754.87	4,129.87	4,129.87	-----	68,625.00
539	Portland.....	Portland and Vancouver R'y Co.....	12	-----	45,285.50	45,285.50	45,285.50	-----	-----
PENNSYLVANIA.									
600	Reading.....	Mount Penn Gravity R. R. Co.....	-----	-----	9,718.20	9,718.20	9,718.20	-----	-----
TENNESSEE.									
640	Nashville.....	Overland R'y Co.....	12	-----	30,395.15	30,395.15	29,095.15	1,300.00	-----
VIRGINIA.									
675	Roanoke.....	Roanoke Street R'y Co.....	12	-----	14,741.06	14,741.06	14,260.00	481.06	-----
WISCONSIN.									
698	Milwaukee.....	Milwaukee and Whitefish Bay R'y Co.....	7	-----	9,176.60	9,176.60	9,171.60	5.00	-----

a \$48,800 not paid.

STREET RAILWAYS.

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TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued.

STEAM PASSENGER RAILWAYS.

EXPENDITURES.													
Total.	Operating expenses.		Fixed charges.					Payments from net income.		Surplus for period of time covered.	Deficit for period of time covered.	No.	
	Amount.	Percent- age of operating expenses to operat- ing in- come.	Total.	Rentals.	Taxes and licenses.	Interest.	Miscella- neous.	Dividends.	Miscella- neous.				
\$33,421.25	\$28,770.00	98.53	\$4,651.25		\$651.25	\$4,000.00					\$4,041.25	4	
58,630.93	40,268.11	96.39	18,362.82		2,171.71	16,191.11					16,854.08	5	
25,266.75	24,734.45	92.92	532.30		532.30					\$1,353.15		6	
4,140.00	4,000.00	111.11	140.00		140.00						540.00	12	
15,096.00	14,300.00	140.20	796.00	\$396.00	400.00						4,896.00	19	
2,069.68	2,056.68	315.64	13.00		13.00						1,418.08	26	
1,679.50	1,679.50	92.20								142.08		32	
8,293.64	8,293.64	126.60									1,742.49	38	
3,672.55	3,019.72	161.35	652.83		36.50	616.33					1,801.00	46	
5,579.98	5,579.98	192.16									2,676.13	55	
1,647.19	1,622.19	66.03	25.00		25.00					809.55		56	
38,900.00	38,210.40	167.20	689.60		689.60						16,046.60	80	
12,004.70	10,638.30	55.00	1,366.40		166.40	1,200.00				7,338.39		119	
750.00	650.00	86.67	100.00		100.00							130	
12,395.00	9,583.00	71.51	1,300.00		250.00	1,050.00		\$1,512.00		1,005.00		131	
14,908.89	13,999.15	70.47	909.74		909.74					4,956.07		168	
2,695.00	2,695.00	41.51								3,798.00		179	
23,881.98	19,531.35	78.26	4,350.63		411.40	3,939.23				1,073.87		188	
9,514.00	9,014.00	56.34	500.00		500.00					6,486.00		190	
13,449.90	9,564.34	84.72	3,885.56		245.56	3,640.00					2,160.75	194	
5,705.74	5,641.06	1,084.97	64.68		64.68						5,185.81	220	
16,090.87	14,585.47	108.73	1,505.40		1,505.40						2,676.27	236	
1,849.11	1,778.85	95.67	70.26		70.26					10.33		276	
168,530.74	123,560.13	84.55	44,970.61		3,383.86	41,586.75					22,388.34	301	
36,111.06	29,215.51	128.05	6,895.55		279.63	6,615.92					13,295.11	314	
6,830.32	6,798.07	142.08	32.25		32.25						2,045.77	315	
80,145.31	57,054.68	60.67	23,090.63		590.63	22,500.00				13,893.63		316	
52,001.13	50,280.65	99.84	1,720.48		1,720.48						1,641.67	338	
20,170.64	20,170.64	85.57								3,402.36		373	
1,478,548.55	924,580.41	58.98	553,968.14	271,075.00	10,191.15	272,701.99				95,940.48		399	
2,149.20	2,149.20											403	
733,593.77	556,735.92	77.73	176,203.00	2,000.00	1,047.75	173,155.25			\$654.85		16,886.86	407	
12,231.80	9,881.77	69.50	2,350.03		700.03	1,650.00				1,985.72		411	
8,465,009.53	4,854,204.55	52.18	2,050,804.98	15,000.00	452,924.98	21,582,880.00		1,560,000.00		923,672.07		449	
176,647.58	157,628.76	76.13	19,018.82		19,018.82					63,960.55		450	
										30,413.22		459	
9,906.78	9,343.21	226.23	563.57	160.00	17.00	386.57				2,848.09		538	
79,659.64	69,247.43	152.91	10,412.21		493.43	9,918.78					34,374.14	539	
8,987.41	8,987.41	92.48								730.79		600	
38,569.36	23,742.45	78.11	8,958.47		2,164.50	6,793.97			5,868.44		8,174.21	640	
12,892.89	12,892.89	87.46								1,848.17		675	
6,863.60	5,983.04	65.20	171.15			171.15			709.50	2,312.91		698	

b Subsidy given to company by property owners along the line.

TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued

RAILWAYS USING MORE THAN ONE KIND OF MOTIVE POWER, THE STATISTICS FOR THE SEVERAL KINDS NOT BEING SEPARABLE.

No.	STATES AND CITIES.	Name of road.	Motive power used.	LENGTH OF TIME COVERED BY REPORT.		RECEIPTS.				
				Months.	Days.	Total.	From operation.			Rentals and miscellaneous.
							Total.	From pas- sengers.	From other sources.	
ALABAMA.										
3	Birmingham	Birmingham Railway and Electric Co.	Animal and steam	6		\$158,150.78	\$158,150.78	\$153,591.89	\$4,558.89	
CALIFORNIA.										
31	Los Angeles	Pacific R'y Co.	Animal and cable	12		298,833.27	298,833.27	298,833.27		
61	San Francisco	Ferris and Cliff House R'y Co.	Steam and cable	12		434,161.85	430,892.15	427,966.06	2,926.09	\$3,269.70
62	San Francisco	Geary Street Park and Ocean R. R. Co.	Steam and cable	12		164,592.35	164,137.75	164,137.75		454.60
63	San Francisco	Market Street Cable R'y Co.	Animal, steam, and cable.	12		1,229,400.24	1,212,932.20	1,212,932.20		16,468.04
67	San Francisco	Presidio and Ferris R. R. Co.	Animal, steam, and cable.	12		116,992.80	116,992.80	116,992.80		
CONNECTICUT.										
90	Hartford	Hartford and Wethersfield Horse R'y Co.	Animal and electric	12		173,664.86	168,567.84	168,567.84		5,097.02
GEORGIA.										
124	Atlanta	Metropolitan Street R. R. Co.	Animal and steam	12		68,212.16	68,212.16	67,868.08	344.08	
128	Columbus	Columbus R. R. Co.	Animal and steam	12		34,654.62	34,654.62	30,240.60	4,414.02	
134	Savannah	City and Suburban R'y Co.	Animal and steam	12		108,000.00	108,000.00	105,000.00	3,000.00	
ILLINOIS.										
142	Chicago	Chicago City R'y Co.	Animal and cable	12		3,441,748.46	3,441,748.46	3,436,748.46	5,000.00	
145	Chicago	North Chicago Street R. R. Co.	Animal and cable	12		1,828,650.64	1,828,650.64	1,809,133.45	19,517.19	
147	Chicago	West Chicago Street R. R. Co.	Animal and cable	12		3,663,381.69	3,663,381.69	3,645,128.95	18,252.74	
INDIANA.										
182	South Bend	South Bend and Mishawaka R'y.	Animal and electric	12		30,399.26	30,399.26	30,399.26		
IOWA.										
195	Des Moines	Des Moines Street R. R. Co.	Animal and electric	12		136,824.28	136,824.28	136,824.28		
KANSAS.										
212	Kansas city	Interstate Consolidated Rapid Transit R'y Co.	Cable and steam	12		186,465.90	183,445.79	183,445.79		3,020.11
KENTUCKY.										
228	Louisville	Louisville R'y Co.	Animal and electric	12		965,368.23	965,368.23	958,741.25	6,626.98	
LOUISIANA.										
235	New Orleans	New Orleans City and Lake R. R. Co.	Animal and steam	12		690,461.55	683,529.35	683,529.35		6,932.20
MASSACHUSETTS.										
253	Boston	Lynn and Boston R. R. Co.	Animal and electric	12		583,481.82	583,481.82	575,669.17	7,812.65	
259	Boston	West End Street R'y Co.	Animal and electric	12		5,780,082.57	5,753,556.32	5,678,390.07	75,166.25	26,526.25
268	Lowell	Lowell and Dracut Street R'y Co.	Animal and electric	12		97,397.28	95,476.25	95,476.25		1,921.03
273	Newburyport	Newburyport and Amesbury Horse R. R. Co.	Animal and electric	12		67,718.61	67,718.61	67,225.50	493.11	
279	Springfield	Springfield Street R'y Co.	Animal and electric	12		188,107.33	180,990.50	180,990.50		7,116.83
MICHIGAN.										
290	Grand Rapids	Street R'y Co. of Grand Rapids.	Animal and steam	12		193,995.63	193,995.63	191,894.77	2,100.86	
296	Saginaw	Saginaw Union Street R'y.	Animal and electric	6		70,681.73	60,213.35	59,913.35	300.00	10,468.38
MINNESOTA.										
304	Saint Paul	Saint Paul City R'y Co.	Animal, cable, and elec- tric.	12		531,182.69	523,253.82	523,253.82		7,928.87
MISSOURI.										
318	Kansas city	Metropolitan Street R'y Co.	Animal, cable, and elec- tric.	12		800,232.68	789,288.33	786,704.65	2,583.68	10,944.35
329	Saint Louis	Citizens' R'y Co.	Animal and cable	12		427,000.00	427,000.00	427,000.00		
333	Saint Louis	Lindell R'y Co.	Animal and electric	12		248,629.67	244,438.67	244,438.67		4,191.00
NEBRASKA.										
355	Lincoln	Capital Heights Street R'y Co.	Animal and electric	12		6,764.66	6,764.66	6,764.66		
361	Omaha	Omaha Street R'y Co.	Animal, cable, and elec- tric.	12		596,471.04	587,803.05	583,303.05	4,500.00	8,667.99
NEW JERSEY.										
373	Jersey city	North Hudson County R'y Co.	Animal and cable	12		619,742.12	617,683.12	617,431.85	251.27	2,059.00
NEW YORK.										
384	Albany	Albany R'y	Animal and electric	12		155,829.93	155,829.93	155,373.33	456.60	
386	Albany	Watervliet Turnpike and R. R. Co.	Animal and electric	12		114,223.15	114,223.15	99,106.57	15,116.58	
391	Binghamton	Binghamton Street R. R. Co.	Animal and electric	3	8	10,593.69	10,593.69	10,593.69		
415	Buffalo	Buffalo Street R. R. Co.	Animal and electric	12		483,229.89	483,229.89	483,229.89		

α Paid in form of interest on bonds of leased lines.

STREET RAILWAYS.

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TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued.

RAILWAYS USING MORE THAN ONE KIND OF MOTIVE POWER, THE STATISTICS FOR THE SEVERAL KINDS NOT BEING SEPARABLE.

EXPENDITURES.										Surplus for period of time covered.	Deficit for period of time cov- ered.	No.
Total.	Operating expenses.		Fixed charges.					Payments from net in- come.				
	Amount.	Percent- age of operating expenses to operat- ing in- come.	Total.	Rentals.	Taxes and licenses.	Interest.	Miscella- neous.	Dividends.	Miscellane- ous.			
\$157,481.74	\$117,468.84	74.28	\$40,012.90	\$1,580.00	\$1,194.65	\$37,238.25				\$669.04	3	
344,153.72	239,179.92	80.04	104,973.80		4,973.80	100,000.00				\$45,320.45	31	
426,251.43	318,648.48	73.95	107,602.95		5,602.95	102,000.00				7,910.42	61	
164,536.19	123,627.36	75.32	4,879.89		4,879.89			\$35,000.00	\$1,028.94	56.16	62	
1,248,999.11	681,230.12	56.16	239,159.05	34,000.00	25,159.05	180,000.00		325,000.00	3,609.94		63	
105,189.91	101,375.95	86.65	3,813.96		3,813.96					11,802.89	67	
168,037.45	143,762.50	85.28	12,274.95		3,767.85	8,507.10		12,000.00		5,627.41	90	
76,799.77	62,350.02	91.41	14,449.75		1,302.71	13,147.04					124	
38,899.62	33,877.12	97.76	5,022.50		432.50	4,590.00				8,587.61	128	
97,400.00	76,600.00	70.93	20,800.00	800.00	2,500.00	17,500.00				4,245.00	134	
3,132,368.59	2,236,008.85	64.97	296,359.74		76,088.86	220,270.88		600,000.00		309,379.87	142	
1,732,997.68	1,062,564.20	58.11	370,433.48	191,667.76	41,029.90	137,735.82		300,000.00		95,652.96	145	
3,440,392.42	2,149,301.41	58.67	799,216.01	490,500.00	53,466.42	255,249.59		491,875.00		222,989.27	147	
20,935.59	16,935.59	55.71	4,000.00			4,000.00				9,463.67	182	
118,018.19	85,641.50	62.59	32,376.69	498.00	348.52	31,530.17				18,806.09	195	
175,923.01	174,612.71	95.18	1,310.30			1,310.30				10,542.89	212	
644,881.79	621,054.91	64.33	23,826.88		23,826.88					320,486.44	228	
672,528.73	436,474.88	63.86	110,196.60		47,513.10	62,683.50		90,000.00	35,857.25	17,932.82	235	
564,830.81	471,370.38	80.79	61,460.43	25,028.72	9,597.01	26,834.70		32,000.00		18,651.01	253	
5,762,361.76	4,234,040.92	73.59	478,831.29	11,950.03	222,377.80	244,503.46		737,000.00	312,489.55	17,720.81	259	
97,073.61	80,844.45	84.67	10,088.16	1,064.52	1,134.69	7,888.95		6,141.00		323.67	268	
65,833.72	54,066.92	79.84	9,368.80			9,368.80		2,398.00		1,884.89	273	
187,634.68	150,645.64	83.23	6,989.04		6,989.04			30,000.00		472.65	279	
184,237.98	145,411.43	74.96	38,826.55		2,826.55	36,000.00				9,757.65	290	
62,096.88	47,675.99	79.18	14,420.89		3,270.89	11,150.00				8,584.85	296	
533,800.36	367,493.54	70.23	166,306.82		6,460.00	150,044.51	\$9,802.31			2,617.67	304	
726,691.35	550,579.87	69.76	115,360.48		17,465.42	97,895.06		55,752.00	4,999.00	73,541.33	318	
382,000.00	271,000.00	63.47	111,000.00		21,000.00	90,000.00				45,000.00	329	
246,111.36	208,405.99	85.26	19,705.37		5,766.79	7,998.15	5,940.43	18,000.00		2,518.31	333	
7,419.66	6,764.66	100.00	655.00	25.00	350.00	280.00				655.00	355	
530,763.56	430,657.81	73.27	100,105.75		5,105.75	95,000.00				65,707.48	361	
574,110.13	424,568.04	68.74	111,350.09		16,567.40	94,782.69		38,102.00		45,631.99	373	
167,291.04	143,708.85	92.22	23,582.19	981.20	5,019.48	17,581.51				11,461.11	384	
115,416.33	84,077.00	73.61	31,339.33		2,947.57	28,391.76				1,193.18	386	
4,761.97	4,761.97	44.95								5,831.72	391	
454,257.20	384,683.19	79.61	69,574.01		7,107.72	62,466.29				28,972.69	415	

STATISTICS OF TRANSPORTATION.

TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued.

RAILWAYS USING MORE THAN ONE KIND OF MOTIVE POWER, ETC.—Continued.

No.	STATES AND CITIES.	Name of road.	Motive power used.	LENGTH OF TIME COVERED BY REPORT.		RECEIPTS.				
						Total.	From operation.			Rentals and miscellaneous.
				Months.	Days.		Total.	From passengers.	From other sources.	
NEW YORK—CON.										
419	Elmira	Elmira and Horseheads R'y Co.	Animal and steam	12	.....	\$34, 219. 72	\$34, 219. 72	\$33, 144. 06	\$1, 075. 66	.....
460	New York	Third Avenue R. R. Co.....	Animal and cable.....	12	.....	1, 783, 047. 24	1, 647, 781. 87	1, 647, 781. 87	.....	\$135, 265. 37
486	Troy	Troy and Lansingburg R. R. Co.	Animal and electric....	12	.....	327, 116. 62	326, 635. 01	326, 635. 01	.....	481. 61
OHIO.										
497	Cincinnati	Cincinnati Street R'y Co	Animal, cable, and electric.	12	.....	1, 216, 197. 08	1, 208, 067. 83	1, 193, 404. 66	14, 663. 17	8, 129. 25
498	Cincinnati	Mount Adams and Eden Park Inclined R'y.	Animal and cable.....	12	.....	262, 485. 47	262, 485. 47	260, 985. 47	1, 500. 00	.....
501	Cleveland	Brooklyn Street R. R. Co. and South Side Street R. R. Co.	Animal and electric ...	12	.....	429, 851. 45	429, 851. 45	429, 851. 45	.....	.....
PENNSYLVANIA.										
564	Philadelphia ...	Frankford and Southwark Passenger R. R. Co.	Animal and steam	12	.....	697, 987. 02	692, 205. 03	687, 180. 03	5, 025. 00	5, 781. 99
572	Philadelphia ...	Philadelphia Traction Co.....	Animal and cable.....	12	.....	3, 260, 164. 72	3, 260, 164. 72	3, 101, 058. 17	159, 106. 55	.....
579	Pittsburg	Central Traction Co.....	Animal and cable.....	12	.....	53, 140. 75	51, 566. 97	51, 566. 97	.....	1, 573. 78
580	Pittsburg	Citizens' Traction Co	Animal and cable.....	12	.....	646, 986. 04	545, 586. 06	545, 586. 06	.....	101, 399. 98
585	Pittsburg	Mount Oliver Incline R'y Co..	Animal and cable.....	12	.....	54, 640. 00	54, 640. 00	54, 268. 75	371. 25	.....
RHODE ISLAND.										
613	Providence.....	Providence Cable Tramway Co.	Animal and cable.....	6	.....	39, 070. 31	39, 070. 31	38, 946. 55	123. 76	.....
WEST VIRGINIA.										
690	Wheeling	Wheeling R'y Co.....	Animal and electric....	12	.....	79, 423. 65	79, 423. 65	78, 279. 80	1, 143. 85	.....

a This item includes \$735,000 dividends of leased lines paid by Traction Co., and \$129,260 interest on funded debt of leased lines assumed and paid by Traction Co.

STREET RAILWAYS.

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TABLE 7.—INCOME AND EXPENDITURE, FOR THE CENSUS YEAR—Continued.

RAILWAYS USING MORE THAN ONE KIND OF MOTIVE POWER, ETC.—Continued.

EXPENDITURES.													
Total.	Operating expenses.		Fixed charges.					Payments from net income.		Surplus for period of time covered.	Deficit for period of time covered.	No.	
	Amount.	Percent- age of operating expenses to operat- ing in- come.	Total.	Rentals.	Taxes and licenses.	Interest.	Miscella- neous.	Dividends.	Miscellane- ous.				
\$33,256.46	\$25,827.02	75.47	\$7,429.44		\$1,250.27	\$6,179.17				\$963.26		419	
1,789,340.57	1,138,453.68	69.09	271,297.63		74,159.81	197,137.82		\$240,000.00	\$139,589.26	\$6,293.33		460	
301,922.82	234,347.46	71.75	37,575.36	\$6,350.00	14,277.95	16,947.41		30,000.00		25,193.80		486	
1,155,835.77	812,778.17	67.28	77,282.60		50,862.92	26,419.68		265,775.00		60,361.31		497	
239,157.63	129,812.23	49.46	49,345.40		3,698.38	45,647.02		60,000.00		23,327.84		498	
403,288.88	310,263.04	72.18	66,625.84		7,994.03	58,631.81		26,400.00		26,562.57		501	
690,355.18	374,787.50	54.14	49,087.94		41,913.94	7,174.00		240,000.00	26,479.74	7,631.84		564	
3,284,869.66	1,963,446.78	60.23	1,071,422.88	\$870,464.07	127,696.88	73,261.93		250,000.00		12,024.53	24,704.94	572	
41,116.22	31,408.38	60.91	9,707.84		332.84	9,375.00						579	
616,868.37	294,629.89	54.00	108,817.77	1,500.00	31,688.20	76,229.57		150,000.00	63,420.71	30,117.67		580	
51,516.81	24,688.49	48.18	4,828.32		1,897.32	2,931.00		22,000.00		3,123.19		585	
33,288.31	33,007.84	84.48	277.47	108.34	125.00	44.13				5,785.00		613	
77,924.97	66,467.84	83.69	10,757.13		10,757.13					2,198.68		690	

STATISTICS OF TRANSPORTATION.

TABLE 8.—BALANCE SHEET, FOR THE CENSUS YEAR.

RAILWAYS OPERATED BY ANIMAL POWER.

No.	STATES AND CITIES.	Name of road.	Date of taking balance.	KIND OF ASSETS.				
				Total.	Cost of road and equip-ment.	Other per-manent invest-ment.	Value of franchise.	Bills and accounts receivable.
ARKANSAS.								
20	Pine Bluff	Citizens' Street R'y Co.	July 1, 1890	\$70,000.00	\$58,832.10			
CALIFORNIA.								
29	Los Angeles	Main Street and Agricultural Park R. R. Co.	July 1, 1890	178,254.59	169,318.21			
35	Marysville	Marysville and Yuba City Street R. R. Co.	July 1, 1890	20,948.79	20,000.00			
36	Oakland	Alameda, Oakland and Piedmont R. R. Co.	July 1, 1890	62,964.00	52,075.00			
47	Pomona	San Antonio and Holt Avenue R. R. Co.	July 1, 1890	14,350.30	11,296.74			
48	Redlands	Redlands Street R'y Co.	July 1, 1890	21,282.51	13,200.95			\$5,808.33
49	Riverside	Hall's Addition Street R'y Co.	July 1, 1890	8,552.46	65,149.18	\$14.35		309.33
50	Riverside	Riverside and Arlington R'y Co.	July 1, 1890	66,112.35	43,911.73			5,918.80
59	San Francisco	Central R. R. Co.	July 1, 1890	530,465.77	493,035.04			
60	San Francisco	City R. R. Co.	July 1, 1890	352,462.50	320,063.54			
66	San Francisco	Potrero and Bay View R. R. Co.	July 1, 1890	348,477.82	331,299.53	1,305.06		7,062.69
73	Santa Ana	Santa Ana, Orange and Tustin Street R'y Co.	July 1, 1890	58,147.14	54,851.61			
76	Santa Rosa	South Side Street R'y Co.	July 1, 1890	16,200.00	15,069.06			
COLORADO.								
86	Trinidad	Trinidad Street R'y Co.	July 1, 1890	50,600.00	50,000.00			400.00
CONNECTICUT.								
88	Bridgeport	Bridgeport Horse R. R. Co.	Oct. 1, 1890	237,680.99	218,755.12			20.63
95	New Haven	New Haven and West Haven Horse R. R. Co.	July 1, 1890	220,901.82	206,401.82			2,500.00
96	New Haven	State Street Horse R. R. Co.	July 1, 1890	104,803.61	89,678.68	600.00		12,759.50
98	Norwalk	Norwalk Horse R'y Co.	July 1, 1890	112,489.91	96,058.52			
101	Waterbury	Waterbury Horse R. R. Co.	July 1, 1890	110,453.01	100,567.98			478.92
102	Westport	Westport and Saugatuck Horse R. R. Co.	July 1, 1890	18,725.08	15,055.00			
DIST. OF COLUMBIA.								
107	Washington	Capitol, North O Street and South Washington R'y Co.	July 1, 1890	550,386.42	294,508.27			
111	Washington	Metropolitan R. R. Co.	July 1, 1890	836,946.80	769,651.53			
FLORIDA.								
114	Jacksonville	Jacksonville Street R. R. Co.	July 1, 1890	127,293.75	120,511.37			
115	Jacksonville	Main Street R'y Co.	July 1, 1890	21,143.47	20,236.14			657.68
ILLINOIS.								
149	Danville	Citizens' Street R'y Co.	July 1, 1890	40,682.28	40,658.56			
154	Lasalle	Lasalle and Peru Horse and Dummy R. R. Co.	July 1, 1890	42,000.00	15,755.27			
159	Peoria	Fort Clark Horse R'y Co.	July 1, 1890	133,406.48	129,147.45			
160	Rockford	Rockford City R'y Co.	July 1, 1890	229,576.49	70,471.82	114,070.66		
162	Springfield	Citizens' Street R'y Co.	July 1, 1890	127,492.21	124,000.00			
INDIANA.								
167	Evansville	Evansville Street R'y Co.	July 1, 1890	249,180.00	236,190.17			
170	Fort Wayne	Fort Wayne Street R. R. Co.	July 1, 1890	521,848.58	453,457.31			
172	Indianapolis	Citizens' Street R. R. Co.	July 1, 1890	1,732,969.38	1,683,765.13			
IOWA.								
188	Cedar Rapids	Cedar Rapids and Marion R'y	July 1, 1890	35,951.39	35,080.31	246.50		500.00
196	Dubuque	Dubuque Street R'y Co.	July 1, 1890	161,417.95	159,175.00			
KANSAS.								
211	Hutchinson	Hutchinson Street R'y Co.	July 1, 1890	72,835.15	72,000.00			120.00
217	Newton	Newton City Street R'y Co.	July 1, 1890	60,314.99	35,292.63			
221	Topeka	Topeka City R'y Co.	July 1, 1890	443,837.21	381,855.01	32,416.46		1,320.00
KENTUCKY.								
226	Covington	South Covington and Cincinnati Street R'y Co.	July 1, 1890	743,491.40	737,200.00			
LOUISIANA.								
232	New Orleans	Canal and Claiborne R. R. Co.	July 1, 1890	449,932.67	314,179.00	514.00	\$50,416.00	57,700.00
233	New Orleans	Crescent City R. R. Co.	July 1, 1890	1,335,331.05	1,322,526.82			
234	New Orleans	New Orleans and Carrollton R. R. Co.	July 1, 1890	1,219,718.82	834,593.35	19,169.24	335,000.00	
MAINE.								
239	Biddeford	Biddeford and Saco R. R. Co.	July 1, 1890	87,025.00	84,623.48			
240	Fryeburg	Fryeburg Horse R. R. Co.	Oct. 1, 1890	7,426.97	7,420.62			
241	Portland	Portland R. R. Co.	Oct. 1, 1890	302,985.07	293,835.87			
MARYLAND.								
243	Baltimore	Baltimore City Passenger R'y Co.	July 1, 1890	1,554,476.29	1,462,616.77			3,843.40
245	Baltimore	Baltimore Union Passenger R'y Co.	Jan. 1, 1891	1,355,841.76	1,207,063.81	128,097.26		
246	Baltimore	Highlandtown and Point Breeze R'y Co.	Jan. 1, 1891	380,936.22	147,304.37	206,479.38		
248	Baltimore	North Baltimore Passenger R'y Co.	Dec. 1, 1890	653,050.00	653,050.00			

^a This item appears in Table 3 as \$11,324.84.

^b This item appears in Table 3 as \$5,149.

^c Includes \$1,795 of stock not issued. See Table 6.

^d This item is reported in Table 3 as \$184,755.22.

^e Includes item "profit and loss", October 1, 1889, \$48,379.45.

^f \$7,500 of this amount is for the Whitney Avenue R'y Co. See Table 6.

^g This item appears in Table 3 as \$120,511.13.

^h This item appears in Table 3 as \$129,147.50.

ⁱ No explanation is given of the discrepancy of \$17,819.16 between this item as it appears here and in Table 3.

STREET RAILWAYS.

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TABLE S.—BALANCE SHEET, FOR THE CENSUS YEAR.

RAILWAYS OPERATED BY ANIMAL POWER.

KIND OF ASSETS—continued.				KIND OF LIABILITIES.								No.
Cash on hand.	Supplies.	Miscellaneous items.	Profit and loss.	Total.	Capital stock.	Funded debt.	Bills and accounts payable.	Interest due.	Dividends due.	Miscellaneous items.	Profit and loss.	
\$425.60		\$742.30	\$10,000.00	\$70,000.00	\$30,000.00	\$40,000.00						20
5,444.38	\$1,992.00	1,500.00		178,254.59	115,000.00		\$10,000.00				\$53,254.59	29
498.79	450.00			20,948.79	20,000.00						948.79	35
5,416.67			5,472.33	62,964.00	55,114.00		7,850.00					36
40.25	703.51	2,309.80		14,350.30	13,312.00					\$1,038.30		47
		1,513.55	759.68	21,282.51	16,666.66		4,000.00	\$188.90		426.95		48
19.42		3,080.18		8,552.46	6,250.00		760.00	17.65		1,524.81		49
882.09		12,950.00	2,449.73	66,112.35	61,337.50		4,700.00			74.85		50
3,899.28	2,797.59	1,749.41	28,984.45	530,465.77	523,233.00					7,232.77		59
26,428.15	1,168.16	4,802.65		352,462.50	332,940.00					9,345.02	10,177.48	60
5,802.15	1,503.50	1,504.89		348,477.82	300,000.00					4,538.03	43,939.79	66
		1,409.39	1,886.14	58,147.14	531,055.00		23,960.00	1,369.54		1,762.60		73
312.02	75.00	39.79	704.13	16,200.00	11,700.00		4,500.00					76
200.00				50,600.00	40,000.00		7,500.00	250.00			2,850.00	86
845.04	2,251.90	49,808.30		237,680.99	140,000.00	50,000.00	23,000.00			571.54	24,109.45	88
12,000.00				220,901.82	89,250.00	50,000.00	49,400.00	975.00			31,276.82	95
1,613.43	152.00			104,803.61	46,150.00	20,300.00	34,929.32	556.30	\$14.25	509.02	2,344.72	96
4,429.90		12,001.49		112,489.91	50,000.00		30,000.00			16,999.23	15,490.68	98
1,700.76	1,198.00		6,507.35	110,453.01	50,000.00	50,000.00	10,453.01					101
1,018.37		2,651.71		18,725.08	15,000.00					3,341.82	383.26	102
2,942.63	1,571.99		251,363.53	550,386.42	500,000.00	50,000.00	386.42					107
22,129.52	4,788.80	40,376.95		836,946.80	435,000.00		32,000.00		1,544.75		368,402.05	111
		348.95	6,433.43	127,293.75	120,500.00			6,025.00		768.75		114
249.65				21,143.47	15,000.00		3,500.00				2,643.47	115
23.72				40,682.28	20,000.00		2,900.00			17,782.28		149
			26,244.73	42,000.00	15,000.00		10,500.00	16,500.00				154
1,759.03	500.00	2,000.00		133,406.48	67,600.00	40,000.00	18,330.26				7,476.22	159
34,169.54	8,407.14	2,457.33		229,576.49	150,000.00	40,108.00	15,000.00			22,683.25	1,785.24	160
3,492.21				127,492.21	38,000.00	63,500.00	3,000.00	10,500.00		5,000.00	7,492.21	162
5,433.53	7,556.30			249,180.00	100,000.00	75,000.00	73,055.00	1,125.00				167
1,421.68	6,000.00		60,969.59	521,848.58	300,000.00	150,000.00	68,488.58	3,360.00				170
22,489.64	19,507.96	7,206.65		1,732,969.38	1,000,000.00	300,000.00	425,000.00	30.00			7,939.38	172
124.58				35,951.39	20,000.00		286.37				15,665.02	188
2,242.95				161,417.95	50,000.00	50,000.00	30,000.00				31,417.95	196
215.15	500.00			72,835.15	50,000.00						22,835.15	211
67.55		24,954.81		60,314.99	17,108.16	30,000.00	5,607.19			959.09	6,640.55	217
	7,619.64		20,626.10	443,837.21	200,000.00	121,000.00	107,192.42			15,644.79		221
6,291.40				743,491.40	300,000.00	343,000.00	19,200.00				81,291.40	226
2,152.33	16,516.28	207.36	8,247.70	449,932.67	240,000.00	150,000.00	44,804.84	33.00		15,094.83		232
4,245.97	8,558.26			1,335,331.05	1,150,000.00	140,000.00			207.50	726.42	44,397.13	233
24,079.01	1,684.77	5,192.45		1,219,718.82	800,000.00	321,000.00	3,610.00		1,975.00	339.10	92,794.72	234
560.45		1,600.00	241.07	87,025.00	40,000.00	40,000.00	6,365.00	660.00				239
6.35				7,426.97	5,075.00		933.46				1,418.51	240
9,149.20				302,985.07	200,000.00		38,000.00				64,985.07	241
45,381.38	22,212.24	20,422.50		1,554,476.29	1,000,000.00		27,082.95		165.00	527,228.34		243
8,742.88	7,317.98	4,619.83		1,355,841.76	750,000.00	120,000.00	370,993.00			15,320.07	99,528.69	245
541.90	96.39		26,514.18	380,936.22	180,000.00	150,000.00	21,995.67			28,940.55		246
				653,050.00	600,000.00						53,050.00	248

j This item appears in Table 3 as \$453,457.51.

k Represents \$55,000 less 2 years' depreciation. In Table 3 this \$55,000 is included in "cost of road and equipment".

l In Table 3 value of franchise, here reported separately, is included in "cost of road and equipment".

m This item appears in Table 6 as \$335,000.

n Yearly earnings which have been applied on construction account.

STATISTICS OF TRANSPORTATION.

TABLE 8.—BALANCE SHEET, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	Date of taking balance.	KIND OF ASSETS.				
				Total.	Cost of road and equipment.	Other permanent investment.	Value of franchise.	Bills and accounts receivable.
MASSACHUSETTS.								
260	Brockton	Brockton Street R'y Co	Oct. 1, 1890	\$340,220.08	\$313,333.44			
262	Fall River	Globe Street R'y Co	Oct. 1, 1890	334,546.03	323,514.48			\$387.80
263	Fitchburg	Fitchburg Street R'y Co	July 1, 1890	97,706.45	494,198.96			400.00
264	Gloucester	Gloucester Street R'y Co	July 1, 1890	122,669.30	100,300.22			18,492.68
265	Haverhill	Haverhill and Groveland Street R'y Co	Oct. 1, 1890	145,000.73	135,972.26			600.00
266	Holyoke	Holyoke Street R'y Co	July 1, 1890	83,789.54	82,314.57			
267	Lawrence	Merrimack Valley Horse R. R. Co	Oct. 1, 1890	118,508.81	116,440.00			
269	Lowell	Lowell Horse R. R. Co	July 1, 1890	286,765.47	280,410.57			
271	Natick	Natick and Cochituate Street R'y Co	July 1, 1890	41,268.87	32,967.50			
272	New Bedford	Union Street R'y Co	July 1, 1890	389,868.54	383,454.63			246.93
277	Pittsfield	Pittsfield Street R'y Co	July 1, 1890	57,110.00	49,993.07			
280	Taunton	Taunton Street R'y Co	Oct. 1, 1890	154,916.05	150,326.72			
281	Wareham	East Wareham, Onset Bay and Point Independence Street R'y Co.	Oct. 1, 1890	13,754.38	12,889.70			
282	Worcester	Worcester Consolidated Street R'y Co	July 1, 1890	673,029.48	656,286.68			1,618.22
MICHIGAN.								
285	Detroit	Detroit City R'y	Jan. 1, 1891	1,966,427.53	1,856,627.36	\$84,338.43		9,303.38
288	Detroit	Fort Wayne and Elmwood R'y Co	Jan. 1, 1891	368,345.61	347,701.24	13,693.17		
291	Grand Rapids	Valley City Street and Cable R'y Co	July 1, 1890	269,759.40	169,087.90		\$99,371.50	
295	Saginaw	City of Saginaw Street R. R. Co	July 1, 1890	46,886.49	630,000.00	15,000.00		1,000.00
MINNESOTA.								
299	Duluth	Duluth Street R'y Co	July 1, 1890	307,089.56	195,611.76	110,000.00		200.00
300	Mankato	Mankato Street R'y Co	July 1, 1890	26,812.62	22,407.55			
302	Minneapolis	Minneapolis Street R'y Co	July 1, 1890	8,068,044.15	2,751,934.26	21,627.60	4,220,316.90	8,950.00
MISSOURI.								
327	Saint Louis	Benton-Bellefontaine R'y Co	July 1, 1890	374,000.00	161,000.00	195,398.25		
330	Saint Louis	Forest Park, Laclede and Fourth Street R'y Co	July 1, 1890	234,711.95	184,885.00			
335	Saint Louis	Mound City Street R'y Co	July 1, 1890	346,041.64	343,866.25			
340	Saint Louis	Southern R'y Co	July 1, 1890	461,350.11	448,932.77			
341	Saint Louis	Union Depot R. R. Co	July 1, 1890	950,748.73	857,789.38	64,988.11		
344	Springfield	Citizens' R'y Co	July 1, 1890	210,827.57	204,374.43			1,025.60
NEBRASKA.								
350	Fremont	Fremont Street R'y Co	July 1, 1890	35,075.00	27,000.00			1,800.00
353	Kearney	Kearney Street R'y Co	July 1, 1890	32,041.88	24,640.00			20.25
359	Nebraska city	Nebraska City Street R'y Co	Jan. 1, 1891	22,558.68	21,099.45			
363	York	York Street R'y Co	July 1, 1890	23,844.75	13,700.00			
NEW HAMPSHIRE.								
365	Laconia	Laconia and Lake Village Horse R. R.	Jan. 1, 1891	36,711.71	36,010.43			49.50
367	Nashua	Nashua Street R'y	Oct. 1, 1890	71,621.20	70,117.65			
NEW JERSEY.								
370	Camden	Camden Horse R. R. Co	July 1, 1890	542,850.74	537,496.55			
371	Elizabeth	Elizabeth and Newark Horse R. R. Co	July 1, 1890	426,833.33	411,790.97			
372	Jersey city	Jersey City and Bergen R. R. Co	July 1, 1890	1,052,050.31	997,986.54			15,000.00
375	Newark	Essex Passenger R'y Co	July 1, 1890	2,440,647.87	2,379,794.50			
NEW MEXICO.								
382	Albuquerque	Albuquerque Street R. R. Co	July 1, 1890	90,836.47	42,247.38			80.49
NEW YORK.								
385	Albany	North and East Greenbush Horse R. R. Co	July 1, 1890	88,914.47	82,973.60	250.00		
387	Amsterdam	Amsterdam Street R. R. Co	July 1, 1890	17,901.85	16,300.00			990.89
388	Auburn	Auburn City R'y Co	July 1, 1890	110,637.60	100,250.33	8,500.00		40.00
392	Binghamton	Court Street and East End R. R. Co	July 1, 1890	38,779.05	38,214.40			
393	Brooklyn	Atlantic Avenue R'y Co	July 1, 1890	2,420,665.31	2,135,777.33	143,375.00		65,800.75
394	Brooklyn	Broadway R. R. Co. of Brooklyn	July 1, 1890	925,633.37	874,272.98			13,700.00
395	Brooklyn	Brooklyn, Bushwick and Queens County R. R.	July 1, 1890	452,307.29	380,271.92			
396	Brooklyn	Brooklyn City and Newtown R. R. Co	July 1, 1890	2,246,406.70	2,197,774.43	13,072.68		208.33
397	Brooklyn	Brooklyn City R. R. Co	July 1, 1890	7,571,748.85	4,861,246.75	2,521,665.03		
409	Brooklyn	Prospect Park and Coney Island R. R. Co. (City Div.)	July 1, 1890	173,577.14	93,139.54			
410	Brooklyn	Prospect Park and Flatbush R. R. Co	July 1, 1890	70,567.09	63,886.32			
412	Brooklyn	South Brooklyn Central R. R. Co	July 1, 1890	415,775.20	410,998.24			42.24
413	Brooklyn	Van Brunt Street and Erie Basin R. R. Co	July 1, 1890	120,006.32	118,676.43			
414	Buffalo	Buffalo East Side Street R'y Co	July 1, 1890	959,798.06	946,787.92			
416	Buffalo	West Side Street R'y Co	July 1, 1890	42,926.42	41,721.62			
417	Canandaigua	Canandaigua Street R. R. Co	July 1, 1890	34,904.24	32,704.24			
418	Cortland	Cortland and Homer Horse R. R. Co	July 1, 1890	48,164.60	43,596.38			40.00
420	Far Rockaway	Rockaway Village R. R. Co	July 1, 1890	55,604.06	50,543.72			
424	Glens Falls	Glens Falls, Sandy Hill and Fort Edward Street R'y Co	July 1, 1890	96,161.00	95,440.00			
426	Jamestown	Jamestown Street R'y Co	July 1, 1890	129,287.20	51,590.90	149.54		270.00
428	Kingston	Kingston City R. R. Co	July 1, 1890	97,225.55	89,171.92			
429	Lockport	Lockport Street R. R. Co	July 1, 1890	62,242.22	43,734.83			
430	Long Island city	Long Island City and Newtown R. R. Co	July 1, 1890	350,100.00	170,200.00			
431	Long Island city	Steinway and Hunters Point R. R. Co	July 1, 1890	720,808.95	534,244.84			
435	Newburg	Newburg Street R'y Co	Jan. 30, 1890	185,567.14	164,552.08			

a Includes \$500 stock in Fitchburg Park Co. not included in cost of construction in Table 3.

b This appears in Table 3 as line acquired by purchase.

STREET RAILWAYS.

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TABLE 8.—BALANCE SHEET, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

KIND OF ASSETS—continued.				KIND OF LIABILITIES.								No.
Cash on hand.	Supplies.	Miscellaneous items.	Profit and loss.	Total.	Capital stock.	Funded debt.	Bills and accounts payable.	Interest due.	Dividends due.	Miscellaneous items.	Profit and loss.	
\$16,694.19	\$9,137.76	\$1,054.69		\$340,220.08	\$150,000.00	\$150,000.00	\$23,492.46				\$16,727.62	260
1,033.50	9,610.25			334,546.03	300,000.00		9,219.24				25,326.79	262
2,367.31	740.18			97,706.45	60,000.00	30,000.00		\$850.00		\$976.66	5,879.79	263
2,263.12	75.00		\$1,538.28	122,669.30	60,000.00	43,000.00	19,669.30					264
8,428.47				145,000.73	144,000.00						1,000.73	265
1,474.97				83,789.54	50,000.00		16,500.00				17,289.54	266
568.81	1,500.00			118,508.81	80,000.00		21,500.00				17,008.81	267
3,877.40	2,477.50			286,765.47	100,000.00	50,000.00	2,156.95		\$2,592.00	85,832.00	46,184.52	269
8,301.37				41,268.87	25,000.00					488.34	15,780.53	271
1,642.52	4,524.46			389,868.54	260,000.00	93,000.00	13,945.44	1,162.50	3,897.00		17,863.60	272
1,773.46			5,343.47	57,110.00	43,110.00		14,000.00					277
4,589.33				154,916.05	100,000.00		44,000.00				10,916.05	280
864.68				13,754.38	12,000.00						1,754.38	281
13,277.40	1,847.18			673,029.48	350,000.00	150,000.00	141,606.83				31,422.65	282
14,000.00	2,158.36			1,966,427.53	1,090,000.00	700,000.00	140,000.00				36,427.53	285
6,951.20				368,345.61	250,000.00				12,500.00		105,845.61	288
		1,300.00		269,759.40	172,259.40	97,500.00						291
886.49				46,886.49	30,000.00	10,000.00					6,886.49	295
400.00	877.80			307,089.56	100,000.00	100,000.00	90,000.00	2,629.28		948.22	13,512.06	299
	200.00		4,205.07	26,812.62	14,000.00		12,500.00			312.62		300
11,320.91	11,974.04	994,005.07	47,915.37	8,068,044.15	5,000,000.00	1,975,000.00	958,875.00			134,169.15		302
12,601.75	5,000.00			374,000.00	324,000.00	50,000.00						327
1,201.81		315.00	48,310.14	234,711.95	93,700.00	92,100.00	48,911.95					330
2,175.99				346,041.64	125,000.00	125,000.00				45,766.00	50,275.64	335
11,417.34	1,000.00			461,350.11	200,000.00	200,000.00	27,527.00			18,356.86	15,466.25	340
7,280.36		20,690.88		950,748.73	350,000.00	400,000.00	70,295.05			75,590.55	45,863.13	341
4,224.64	438.50	764.40		210,827.57	120,000.00	80,000.00		2,115.55		140.40	8,571.62	344
400.00	100.00	400.00	5,375.00	35,075.00	30,000.00		5,075.00					250
11.94			7,369.69	32,041.88	14,640.00	10,000.00	5,191.04	2,210.84				353
159.23	1,300.00			22,558.68	17,500.00		5,051.20				7.48	359
10,000.00			144.75	23,844.75	9,000.00	10,000.00	4,844.75					363
406.78	245.00			36,711.71	20,000.00		9,459.36				7,252.35	365
378.55	1,125.00			71,621.20	20,000.00		45,613.72				6,007.48	367
4,354.19	1,000.00			542,850.74	250,000.00	250,000.00	11,000.00	2,355.00	1.00	2,000.00	27,494.74	370
825.49	166.22	474.29	13,576.36	426,833.33	233,333.33	188,000.00	5,500.00					371
39,063.77				1,052,050.31	720,000.00		6.82				74,043.49	372
39,436.70	3,318.48	18,098.19		2,440,647.87	600,000.00	1,550,000.00	58,499.80	19,796.16			212,351.91	375
3,229.66	1,000.00		44,278.94	90,836.47	60,000.00	22,000.00	4,493.17	4,343.30				382
211.88			5,478.99	88,914.47	50,000.00	29,000.00	1,800.00	5,158.10		2,956.37		385
610.96				17,901.85	15,000.00		2,901.85					387
357.81	1,489.46			110,637.60	50,000.00	60,000.00					637.60	388
564.65				38,779.05	35,000.00		1,419.51				2,359.54	392
38,824.51	36,887.72			2,420,665.31	1,000,000.00	965,500.00	209,121.80	15,405.79	15,000.00		215,637.72	393
11,671.26	25,080.95	908.18		925,633.37	525,000.00	350,000.00	6,964.16	8,750.00		8,874.00	26,045.21	394
4,953.58	1,149.84	1,389.93	64,542.02	452,307.29	100,000.00	250,000.00	56,004.99	17,500.00		28,802.30		395
12,054.97	8,504.24	14,792.05		2,246,406.70	1,000,000.00	981,000.00	44,681.02	14,000.00		178,411.43	28,314.25	396
75,606.31	105,243.46	7,987.30		7,571,748.85	6,000,000.00	800,000.00	200,000.00				569,686.35	397
5,483.69	5,956.98		68,996.93	173,577.14		66,704.92	93,264.30	20.84		13,587.08		409
835.18	21.00		5,824.59	70,567.09	50,000.00	20,000.00	67.09	500.00				410
2,949.11	1,785.61			415,775.20	125,000.00	278,500.00	3,526.73	7,410.41			1,338.06	412
1,179.89	150.00			120,006.32	75,000.00	25,000.00	8,500.00	1,500.00			10,006.32	413
7,400.89	4,329.25	1,280.00		959,798.06	100,000.00	694,000.00	131,131.99	7,795.00		15,698.84	11,172.23	414
1,207.80				42,929.42	5,000.00		35,572.60			1,207.80	1,149.02	416
104.51	771.26	280.33	1,033.90	34,904.24	12,704.24	20,000.00	2,200.00					417
3,075.82	1,452.40			48,164.60	40,000.00		90.26			1,965.20	6,109.14	418
350.18			4,701.16	55,604.06	25,000.00	25,000.00	5,395.73	208.33				420
562.22			158.78	96,161.00	70,000.00	24,000.00	1,051.00	600.00		510.00		424
279.62	1,122.64	275,874.50		129,287.20	100,000.00	25,000.00				3,811.88	475.32	426
7,114.35	301.12	638.16		97,225.55	50,000.00	31,000.00		41.66		1,592.54	14,591.35	428
63.38			18,444.01	62,242.22	22,251.21	25,000.00	14,048.77	312.50		629.74		429
1,509.75	350.00		178,040.25	350,100.00	150,000.00	200,000.00	100.00					430
5,117.49	8,008.63	1,926.03	171,511.96	720,808.95	250,000.00	345,000.00	87,520.67	30,149.95		8,138.33		431
705.60	531.09	125.00	19,653.37	185,567.14	40,000.00	100,000.00	8,459.14	2,500.00			34,608.00	435

c The discrepancy of \$19,075.83 between this item and the same in Table 3 is explained as due to deterioration of equipment.

d Of this \$75,050 is due for capital stock not assessed.

STATISTICS OF TRANSPORTATION.

TABLE 8.—BALANCE SHEET, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	Date of taking balance.	KIND OF ASSETS.				
				Total.	Cost of road and equip-ment.	Other per-manent in-vestment.	Value of franchise.	Bills and accounts receivable.
NEW YORK—cont'd.								
436	New York	Broadway and Seventh Avenue R. R. Co	Jan. 1, 1891	\$4,472,663.94	\$4,295,025.00			\$76,345.58
437	New York	Central Cross Town R. R. Co	July 1, 1890	876,890.90	840,000.00	\$1,000.00		
438	New York	Central Park, North and East River R. R. Co	July 1, 1890	3,020,224.43	2,779,369.47	6,000.00		
439	New York	Chambers Street and Grand Street Ferry R. R. Co	Jan. 1, 1891	850,138.83	833,471.67			
440	New York	Christopher and Tenth Street R. R. Co	May 1, 1890	866,950.83	766,211.32	66,700.00		
441	New York	Dry Dock, East Broadway and Battery R. R. Co	July 1, 1890	3,324,864.82	3,063,587.67	145,593.75		
442	New York	Eighth Avenue R. R. Co	July 1, 1890	2,025,000.00	1,782,003.57	6,120.00		52,000.00
443	New York	Forty-second Street and Grand Street Ferry R. R. Co	July 1, 1890	1,086,287.07	1,020,310.55	2,500.00		
444	New York	Forty-second Street, Manhattanville and Saint Nicholas Avenue R'y Co.	July 1, 1890	5,389,366.53	5,250,484.54			
445	New York	Harlem Bridge, Morrisania and Fordham R'y Co.	July 1, 1890	509,022.02	496,281.50	2,035.40		
446	New York	Houston, West Street and Pavonia Ferry R. R. Co	July 1, 1890	901,710.31	750,000.00	122,428.61		
454	New York	New York and Harlem R. R. Co. (St. R'y Div.)	July 1, 1890	24,749,320.37	a23,492,532.88	6,100.00		1,072,253.56
455	New York	Ninth Avenue R. R. Co	July 1, 1890	761,800.00	313,738.06	760.00		1,500.00
456	New York	Pelham Park R. R. Co	July 1, 1890	93,094.38	50,611.59	40,123.17		
457	New York	Second Avenue R. R. Co	July 1, 1890	3,727,592.46	3,691,661.98			
458	New York	Sixth Avenue R. R. Co	July 1, 1890	2,185,826.61	2,043,133.28	6,300.00		
461	New York	Twenty-third Street R'y Co	July 1, 1890	1,398,354.52	1,271,156.90	12,960.00		
462	Niagara Falls	Niagara Falls and Suspension Bridge R'y Co.	July 1, 1890	49,649.29	48,245.72			
464	Olean	Olean Street R'y Co	July 1, 1890	17,841.99	16,240.05			100.00
466	Oneonta	Oneonta Street R'y Co.	July 1, 1890	20,637.14	20,266.89			200.00
467	Oswego	Oswego Street R'y Co.	July 1, 1890	27,500.00	25,645.34			
469	Rochester	Rochester R'y Co	July 1, 1890	6,987,124.00	6,429,185.29			
470	Rome	Rome City Street R'y Co.	July 1, 1890	205,929.19	176,689.33			20.82
471	Schenectady	Schenectady Street R'y Co.	July 1, 1890	72,753.95	60,244.35	850.00		
472	Stillwater	Stillwater and Mechanicsville Street R'y Co.	July 1, 1890	30,020.38	29,683.66			94.57
474	Syracuse	Fifth Ward R. R. Co.	July 1, 1890	70,522.37	67,632.70			
475	Syracuse	Fourth Ward R'y Co.	July 1, 1890	121,347.71	65,066.60			56,000.00
476	Syracuse	Genesee and Water Street R. R. Co	July 1, 1890	123,311.92	114,352.08	4,383.12		
478	Syracuse	People's R. R. Co. of Syracuse	July 1, 1890	639,028.72	633,508.22			5,000.00
479	Syracuse	Syracuse and Geddes R'y Co.	July 1, 1890	95,811.47	95,211.47			
482	Syracuse	Woodlawn and Butternut Street R'y Co	July 1, 1890	42,318.25	41,892.59			
484	Troy	Troy and Albion Horse R. R. Co.	July 1, 1890	94,421.63	83,795.87			
487	Utica	Utica and Mohawk R. R. Co.	July 1, 1890	90,460.84	83,409.62			
OHIO.								
505	Cleveland	Woodland Avenue and West Side Street R. R. Co	July 1, 1890	1,199,630.16	1,193,971.35			
514	Findlay	Findlay Street R'y Co.	July 1, 1890	207,948.65	c202,024.95			
520	Lorain	Lorain Street R'y Co.	July 1, 1890	11,331.51	11,331.51			
532	Youngstown	Youngstown Street R. R. Co.	July 1, 1890	42,140.00	38,000.00			
OREGON.								
535	Astoria	Astoria Street R'y Co.	July 1, 1890	54,428.73	52,904.31			
PENNSYLVANIA.								
545	Altoona	City Passenger R'y Co.	July 1, 1890	83,125.54	80,050.00	465.00		32.00
553	Harrisburg	Harrisburg City Passenger R'y Co.	July 1, 1890	164,192.46	159,762.94			
554	Lancaster	Lancaster and Millersville R. R. Co.	July 1, 1890	48,861.06	48,449.78			
555	Lancaster	Lancaster City Street R'y Co.	July 1, 1890	79,900.00	76,084.52			
559	Norristown	Norristown Passenger R'y Co.	July 1, 1890	46,559.00	44,509.34			
560	Philadelphia	Catharine and Bainbridge Street R. R. Co.	July 1, 1890	300,000.00	286,417.50			
561	Philadelphia	Citizens' Passenger R'y Co.	July 1, 1890	518,014.29	498,750.13			
563	Philadelphia	Empire Passenger R'y Co.	July 1, 1890	954,884.07	811,038.95			
565	Philadelphia	Hestonville, Mantua and Fairmount Passenger R. R. Co.	July 1, 1890	937,867.89	870,052.50			275.00
567	Philadelphia	Lombard and South Streets Passenger R'y Co.	July 1, 1890	962,966.18	757,707.39	150,406.70		
568	Philadelphia	Manayunk and Roxboro Inclined Plane and R'y Co.	July 1, 1890	84,182.47	d32,979.36			
569	Philadelphia	People's Passenger R'y Co.	July 1, 1890	2,017,997.69	417,183.64	1,251,655.17		145,895.00
570	Philadelphia	Philadelphia and Grays Ferry Passenger R'y Co.	Jan. 1, 1891	322,602.30	249,514.40	49,050.00		
571	Philadelphia	Philadelphia City Passenger R'y Co.	July 1, 1890	958,277.33	875,842.88			
576	Philadelphia	Thirteenth and Fifteenth Streets Passenger R'y Co.	July 1, 1890	551,515.11	504,529.44	10,652.43		29,990.20
587	Pittsburg	Pittsburg, Allegheny and Manchester Passenger R'y Co	July 1, 1890	610,404.54	459,566.49	105,134.93		
588	Pittsburg	Pittsburg and Birmingham Passenger R. R. Co	Nov. 19, 1889	275,000.00	245,172.88			
589	Pittsburg	Pittsburg and Birmingham Traction Co.	July 1, 1890	4,532,021.48	3,000,000.00			
590	Pittsburg	Pittsburg and West End Passenger R'y Co.	July 1, 1890	188,608.98	174,157.81			
593	Pittsburg	Pittsburg Union Passenger R'y Co.	July 1, 1890	195,685.28	146,034.29	612.50		
596	Pittsburg	South Side Passenger R'y Co.	July 1, 1890	86,402.90	81,851.13			
603	Stroudsburg	Stroudsburg Passenger R'y Co.	July 1, 1890	26,550.00	25,600.00	250.00		350.00
605	Wilkesbarre	Coalville Passenger R. R. Co.	July 1, 1890	80,244.77	78,971.34			335.12
606	Wilkesbarre	Wilkesbarre and Kingston Passenger R'y Co.	July 1, 1890	174,386.27	111,030.82	7,000.00		40,000.00
610	York	York Street R'y Co.	July 1, 1890	76,066.25	70,174.11			
RHODE ISLAND.								
612	Pawtucket	Pawtucket Street R'y Co.	July 1, 1890	228,000.00	210,633.31			93.20
614	Providence	Union R. R. Co.	July 1, 1890	1,983,186.59	1,755,361.63	70,000.00		5,486.64
615	Woonsocket	Woonsocket Street R'y Co.	July 1, 1890	164,426.50	f161,158.80			
SOUTH CAROLINA.								
617	Charleston	Enterprise R. R. Co.	July 1, 1890	309,209.40	g292,129.75			

a Includes steam railroads.

b Not issued. See Table 6.

c Includes original cost of road paid for in stock and bonds, not included in Table 3.

d This item appears in Table 3 as \$82,979.76.

e \$100,000 of this amount is debenture bonds. See Table 6.

STREET RAILWAYS.

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TABLE 8.—BALANCE SHEET, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

KIND OF ASSETS—continued.				KIND OF LIABILITIES.								No.
Cash on hand.	Supplies.	Miscellaneous items.	Profit and loss.	Total.	Capital stock.	Funded debt.	Bills and accounts payable.	Interest due.	Dividends due.	Miscellaneous items.	Profit and loss.	
\$85,293.36	\$16,000.00			\$4,472,663.94	\$2,100,000.00	\$2,200,000.00	\$67,399.69				\$105,264.25	436
35,890.90				876,890.90	600,000.00	250,000.00				\$8,666.66	18,224.24	437
50,877.01		\$90.19	\$183,887.76	3,020,224.43	1,800,000.00	1,200,000.00	20,000.00		\$33.00	191.43		438
14,877.34	983.00	806.82		850,138.83	800,000.00		5,728.02			28,534.14	15,876.67	439
1,676.55	8,252.46		24,110.50	866,950.83	650,000.00	210,000.00		\$1,054.17		5,896.66		440
63,124.71	52,558.69			3,324,864.82	1,200,000.00	2,040,000.00		34,900.00			49,964.82	441
40,529.70	26,732.24	2,790.49	114,824.00	2,025,000.00	1,000,000.00	1,000,000.00		25,000.00				442
61,476.52	2,000.00			1,086,287.07	748,000.00	236,000.00	57,655.68	4,130.00		3,000.00	37,501.39	443
1,310.76	9,977.36	1,931.98	125,661.89	5,389,366.53	2,500,000.00	2,725,000.00		24,000.00		140,366.53		444
886.68	7,768.86	2,049.58		509,022.02	350,000.00	77,000.00	6,000.00				76,022.02	445
29,281.70				901,710.31	250,000.00	500,000.00	10,000.00	16,747.50			124,962.81	446
111,582.36	66,851.57			24,749,320.37	10,000,000.00	12,005,000.00	24,422.95	372.08	2,337.40		2,717,187.94	454
13,244.50	3,288.83		429,268.61	761,800.00	761,800.00							455
1,913.79	56.00	389.83		93,094.38	50,000.00	31,500.00	7,500.00	472.50	946.50	265.43	2,409.95	456
24,308.19	4,830.49	6,791.80		3,727,592.46	1,862,000.00	1,750,000.00	60,000.00	17,583.24		3,450.00	34,559.22	457
100,654.77	10,000.00	25,738.56		2,185,826.61	1,500,000.00	500,000.00		17,500.00		67,972.78	100,353.83	458
105,442.54	8,795.08			1,398,354.52	600,000.00	454,000.00		8,016.67		58,692.02	277,645.83	461
883.57	520.00			49,649.29	44,000.00					378.88	5,270.41	462
1,051.62	296.34	153.98		17,841.99	10,000.00					558.27	7,283.72	464
170.25				20,637.14	20,000.00		500.00				137.14	466
296.82		315.00	1,242.84	27,500.00	20,000.00	7,500.00						467
387,038.71		170,900.00		6,987,124.00	4,000,000.00	2,875,000.00				11,010.15	101,113.85	469
126.23	468.10	150.00	28,474.71	205,929.19	50,000.00	125,000.00	29,619.19	1,310.00				470
846.18			10,813.42	72,753.95	25,000.00	30,000.00	10,554.99	5,129.79		2,069.17		471
	242.15			30,020.38	10,712.50	12,000.00	5,650.00	289.08	536.25	459.25	373.30	472
2,842.37		47.30		70,522.37	49,200.00	18,480.00					2,842.37	474
126.00	155.11			121,347.71	80,000.00	36,000.00	4,718.02	256.56			373.13	475
527.85	4,048.87			123,311.92	60,000.00	2,500.00	16,500.00				44,311.92	476
1,120.50				639,628.72	296,500.00	300,000.00	28,423.83				14,704.89	478
	600.00			95,811.47	50,000.00	35,000.00	4,000.00	354.25		1,686.53	4,770.69	479
375.66		50.00		42,318.25	15,000.00	20,000.00	5,300.00	766.83			1,251.42	482
2,453.20	297.06	7,875.50		94,421.63	44,700.00	34,000.00		1,190.00	429.00	12.80	14,089.83	484
7,051.22				90,460.84	49,000.00	25,900.00	15,000.00	495.00		6.12	59.72	487
5,658.81				1,193,630.16	1,100,000.00		1,898.24				97,731.92	505
4,750.80	883.60	289.30		207,948.65	100,000.00	93,500.00	10,000.00	410.00		240.00	3,798.65	514
				11,331.51	7,500.00	1,500.00	587.00	41.09		759.45	943.97	520
4,140.00				42,140.00	38,000.00						4,140.00	532
437.59	1,086.83			54,428.73	36,800.00	13,000.00		89.00		2,141.34	2,398.39	535
1,843.54	600.00	135.00		83,125.54	80,050.00		1,120.00		1,700.00		255.54	545
3,731.52	698.00			164,192.46	100,000.00		10,000.00				54,192.46	553
411.28				48,861.06	40,000.00						8,861.06	554
825.34		1,500.00	1,490.14	79,900.00	63,900.00		16,000.00					555
118.31		72.45	1,858.90	46,559.00	44,415.15		2,000.00			143.85		559
			13,582.50	300,000.00	150,000.00	150,000.00						560
19,264.16				518,014.29	500,000.00						18,014.29	561
143,845.12				954,884.07	600,000.00	200,000.00					154,884.07	563
16,725.88		50,814.51		937,867.89	299,381.36	597,499.99		5,042.75	698.45	1,737.00	33,508.34	565
17,853.23		36,998.86		962,966.18	374,842.50	174,441.10				413,682.58		567
508.11	695.00			84,182.47	58,475.00	2,000.00	1,900.00			20,023.06	1,784.41	568
135,245.72		68,018.16		2,017,997.69	860,000.00	750,000.00				32,136.78	375,860.91	569
14,037.90		10,000.00		322,602.30	309,207.00				51.03		13,344.27	570
82,434.45				958,277.33	475,000.00	480,000.00			1,031.70	118,000.00	64,245.63	571
6,343.04				551,515.11	334,529.44	100,000.00	29,990.20			70,000.00	16,995.47	576
45,492.12		211.00		610,404.54	350,000.00	200,000.00					60,404.54	587
1,530,583.97		1,437.51	29,827.12	275,000.00	200,000.00	75,000.00		4,583.33			27,438.15	589
13,722.67	678.50	50.00		4,532,021.48	3,000,000.00	1,500,000.00					3,548.84	590
230.89	2,000.00		46,807.60	188,608.98	110,060.14	75,000.00		12,930.28				593
				195,685.28	82,755.00	100,000.00						
4,551.77				86,402.90	38,400.00	19,000.00					29,002.90	596
75.00	250.00	25.00		26,550.00	25,600.00	700.00	125.00	25.00	50.00	10.00	40.00	603
88.31		850.00		80,244.77	62,775.00	12,000.00	763.64	240.00			4,466.13	605
13,394.85		2,960.60		174,886.27	100,000.00						74,388.27	606
4,684.36	1,207.78			76,066.25	50,000.00		20,000.00			3,893.31	2,292.94	610
1,465.41	1,950.35		13,857.73	228,000.00	200,000.00		28,000.00					612
44,312.81	108,025.51			1,983,186.59	1,500,000.00						483,186.59	614
1,109.24	2,158.46			164,426.50	100,000.00	59,000.00	2,451.50	1,475.00		1,500.00		615
2,063.92	139.02	12,838.38	2,038.33	309,209.40	250,000.00	44,000.00	1,500.00	1,100.00	112.70	12,496.70		617

f This item as given in Table 3 represents only the expenditure of the present company, and does not cover original cost of road.
g This item appears in Table 3 as \$292,129.73.

STATISTICS OF TRANSPORTATION.

TABLE 8.—BALANCE SHEET, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued:

No.	STATES AND CITIES.	Name of road.	Date of taking balance.	KIND OF ASSETS.				
				Total.	Cost of road and equip- ment.	Other perma- nent in- vestment.	Value of franchise.	Bills and accounts receivable.
TEXAS.								
645	El Paso	Santa Fe Street R'y Co	July 1, 1890	\$35,059.41	\$28,615.25	a\$4,022.92		
648	Gainesville	Gainesville Street R'y Co	July 1, 1890	80,000.00	33,600.00	5,900.00		
649	Galveston	Galveston City R. R. Co	July 1, 1890	869,208.74	588,328.41	92,992.16		\$149,923.68
651	Houston	Houston City Street R'y Co	Jan. 1, 1891	326,602.59	264,095.41	34,971.62		667.50
655	Paris	Paris R'y Co	July 1, 1890	58,200.00	44,750.00			
VERMONT.								
664	Burlington	Winooski and Burlington Horse R. R. Co	July 1, 1890	63,546.10	47,446.10	c14,500.00		
665	Rutland	Rutland Street R'y Co	July 1, 1890	81,793.60	78,920.00			639.02
VIRGINIA.								
669	Norfolk	Berkley Street R'y Co	July 1, 1890	7,275.36	6,290.09	780.35		
670	Norfolk	Norfolk City R. R. Co	July 1, 1890	225,000.00	155,016.46	3,743.67		
671	Norfolk	Suburban and City Railway and Improvement Co	July 1, 1890	121,550.00	69,788.86			
WISCONSIN.								
695	Lacrosse	Lacrosse City R'y Co	July 1, 1890	231,134.37	86,194.03		\$137,258.00	610.46
699	Milwaukee	Milwaukee City R. R. Co	July 1, 1890	2,568,413.78	2,533,486.80			14.78

^a \$4,022.92 here given as other permanent investment appears in Table 3 as part of the cost of road and equipment.^b Of this amount only \$32,200 is paid up. See Table 6.

STREET RAILWAYS.

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TABLE 8.—BALANCE SHEET, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

KIND OF ASSETS—continued.				KIND OF LIABILITIES.								No.
Cash on hand.	Supplies.	Miscellaneous items.	Profit and loss.	Total.	Capital stock.	Funded debt.	Bills and accounts payable.	Interest due.	Dividends due.	Miscellaneous items.	Profit and loss.	
\$2,323.04	\$98.20			\$35,059.41	\$33,310.13				\$1,749.28			645
40,000.00	500.00			80,000.00	40,000.00	\$40,000.00						648
16,910.69	8,804.87	\$12,248.93		869,208.74	317,723.50	300,000.00	\$64,653.25	\$4,780.30	204.50	\$15,490.48	\$166,356.71	649
4,658.66	6,742.75	15,466.65		326,602.59	100,000.00	142,000.00	19,019.86	5,403.32	32.50	9,928.45	50,218.46	651
3,305.00	832.00	250.00	\$9,063.00	58,200.00	40,000.00		15,000.00		3,200.00			655
1,400.00	200.00			63,546.10	40,000.00	15,000.00					8,546.10	664
1,273.88	960.70			81,793.60	50,000.00	28,000.00	483.65	48.00			3,261.95	665
204.92				7,275.36	6,312.07		424.35				538.94	669
1,603.35	44,312.88		20,323.64	225,000.00	100,000.00	125,000.00						670
786.65			50,974.49	121,550.00	50,000.00	67,500.00		4,050.00				671
5,325.22	835.75	910.91		231,134.37	200,000.00		21,250.00			345.00	9,539.37	695
29,417.20	4,851.25	643.75		2,568,413.78	1,500,000.00	1,000,000.00	16,137.51	4,224.95			48,051.32	699

c \$14,500 here given as other permanent investment appears in Table 3 as part of the cost of road and equipment.

STATISTICS OF TRANSPORTATION.

TABLE 8.—BALANCE SHEET. FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS.

No.	STATES AND CITIES.	Name of road.	Date of taking balance.	KIND OF ASSETS.				
				Total.	Cost of road and equip-ment.	Other per-manent in-vestment.	Value of franchise.	Bills and accounts receivable.
CONNECTICUT.								
87	Birmingham.....	Derby Street R'y Co	July 1, 1890	\$125,616.19	\$95,225.16	\$1,050.82		\$446.00
DIST. OF COLUMBIA.								
109	Washington	Eckington and Soldiers' Home R'y Co.....	Jan. 1, 1891	318,611.34	306,712.52			
110	Washington	Georgetown and Tennallytown R'y Co	Sept. 1, 1890	250,497.18	185,265.05			
GEORGIA.								
121	Atlanta.....	Atlanta and Edgewood Street R. R. Co.....	July 1, 1890	91,100.00	89,600.00			
ILLINOIS.								
150	Decatur	Citizens' Electric Street R'y Co.....	Sept. 1, 1890	143,781.46	136,550.71	2,166.22		
INDIANA.								
166	Elkhart	Citizens' Street R'y Co.....	July 1, 1890	50,075.00	36,419.48			45.00
KANSAS.								
222	Topeka	Topeka Rapid Transit R'y Co.....	July 1, 1890	1,101,582.65	592,214.36			
MASSACHUSETTS.								
249	Attleboro.....	Attleboro, North Attleboro and Wrentham Street R'y Co.	Oct. 1, 1890	123,120.91	115,694.20			6,400.00
252	Boston.....	Boston and Revere Electric Street R'y Co.....	July 1, 1890	90,003.97	85,050.23			
257	Boston.....	Quincy and Boston Street R'y Co.....	Oct. 1, 1890	84,529.02	75,815.58			
261	Brockton	East Side Street R'y Co.....	Oct. 1, 1890	66,054.30	65,368.44			
270	Marlboro	Marlboro Street R'y Co.....	Oct. 1, 1890	107,546.49	105,935.41			
274	North Adams	Hoosac Valley Street R'y Co.....	Jan. 1, 1891	131,067.94	128,098.37			
MICHIGAN.								
283	Adrian	Adrian City Electric Belt R'y Co.....	July 1, 1890	86,500.00	49,063.37			
287	Detroit	East Detroit and Grossepoint R'y Co.....	July 1, 1890	100,293.10	85,175.64			
289	Detroit	Highland Park R'y Co.....	July 1, 1890	79,315.25	655,993.37	10,000.00		
293	Muskegon	Muskegon R'y Co.....	Jan. 1, 1891	127,195.43	116,218.29	9,691.37		
294	Port Huron	Gratiot Electric R'y Co.....	Jan. 1, 1891	56,712.97	56,712.97			
MISSOURI.								
319	Kansas city.....	North East Street R'y Co.....	Jan. 1, 1891	573,454.84	170,799.90	108,535.23	\$225,000.00	62.50
NEW YORK.								
468	Rochester	Rochester Electric R'y Co.....	July 1, 1890	208,944.36	186,401.17	9,499.00		
481	Syracuse	Third Ward R'y Co.....	July 1, 1890	163,752.69	162,435.45			671.28
488	Utica	Utica Belt Line Street R. R. Co.....	July 1, 1890	779,194.97	743,120.53			8,175.00
OHIO.								
492	Akron	Akron Street R. R. Co.....	July 1, 1890	499,000.00	282,600.00		200,000.00	
OREGON.								
536	Portland	Metropolitan R'y Co.....	July 1, 1890	334,741.68	330,940.58			
PENNSYLVANIA.								
551	Erie	Erie Electric Motor Co.....	July 1, 1890	609,864.06	607,984.19			
552	Harrisburg	East Harrisburg Passenger R'y Co.....	July 1, 1890	159,528.15	125,801.27	10,803.12		2.50
582	Pittsburg	Federal Street and Pleasant Valley Passenger R'y Co.....	July 1, 1890	2,003,093.83	1,156,354.28	5,020.00	800,000.00	4,485.46
595	Pittsburg	Second Avenue Passenger R'y Co.....	July 1, 1890	456,151.41	412,050.95	17,912.57		
604	Sunbury	Sunbury and Northumberland Street R'y Co.....	July 1, 1890	140,825.00	140,475.34			
RHODE ISLAND.								
611	Newport.....	Newport Street R'y Co.....	Jan. 1, 1891	153,915.83	147,340.34			
TENNESSEE.								
629	Chattanooga.....	Chattanooga Electric Street R. R. Co.....	Jan. 1, 1891	415,000.00	375,270.00			
UTAH.								
663	Salt Lake city	Salt Lake City R. R. Co.....	May 1, 1890	273,987.72	242,082.06	2,684.10		3,100.00
VIRGINIA.								
667	Danville	Danville Street Car Co.....	July 1, 1890	53,318.12	52,253.07			
WASHINGTON.								
680	Seattle.....	Seattle Electric Railway and Power Co.....	July 1, 1890	715,219.90	323,460.21	179,946.80		23,278.93

a Of this \$386,500 is capital stock and \$118,000 unissued bonds in treasury.

b Of this amount \$213,000 is paid in. See Table 6.

c Of this amount \$224,000 is paid in. See Table 6.

STREET RAILWAYS.

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TABLE 8.—BALANCE SHEET, FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS.

KIND OF ASSETS—continued.				KIND OF LIABILITIES.								No.
Cash on hand.	Supplies.	Miscellaneous items.	Profit and loss.	Total.	Capital stock.	Funded debt.	Bills and accounts payable.	Interest due.	Dividends due.	Miscellaneous items.	Profit and loss.	
\$187.36	\$2,142.47	\$322.47	\$26,241.91	\$125,616.19	\$50,000.00	\$8,300.00	\$65,012.46	\$925.91		\$1,377.82		87
11,898.82				318,611.34	281,600.00		33,448.30				\$3,563.04	109
63,734.13	1,498.00			250,497.18	200,000.00		50,250.00				247.18	110
1,400.00		100.00		91,100.00	25,700.00	60,900.00		3,020.00			1,480.00	121
		3,538.84	1,525.69	143,781.46	41,200.00	18,500.00	74,545.66			9,535.80		150
107.00			13,503.52	50,075.00	31,500.00	11,000.00	6,900.00			675.00		166
968.29	3,900.00	504,500.00		1,101,582.65	600,000.00	342,000.00	140,583.00			13,808.58	5,191.07	222
640.46	386.25			123,120.91	60,000.00	50,000.00	8,872.20	1,041.65			3,207.06	249
1,053.74	275.00	3,625.00		90,003.97	50,000.00	25,000.00	8,600.00			5,484.81	919.16	252
4,850.57	3,862.87			84,529.02	50,000.00		27,824.87				6,704.15	257
45.12			640.74	66,054.30	45,000.00		21,054.30					261
816.30		728.64	66.14	107,546.49	50,000.00	50,000.00	6,796.49	750.00				270
2,969.57				131,067.94	50,000.00	50,000.00	30,000.00				1,067.94	274
		37,436.63		86,500.00	50,000.00	36,500.00						283
251.88			14,865.58	100,293.10	33,500.00	30,000.00	35,218.82			1,574.28		287
1,159.04			12,162.84	79,315.25	50,000.00	25,000.00	4,315.25					289
	550.57	735.20		127,195.43	58,749.99		63,078.61	400.00			4,966.83	293
				56,712.97	5,000.00	44,000.00	5,575.00				2,137.97	294
	1,113.10	67,944.11		573,454.84	260,000.00	260,000.00	53,454.84					319
12,994.19		50.00		208,944.36	200,000.00						8,944.36	468
291.64	354.32			163,752.69	50,000.00	100,000.00	2,000.00			3,306.09	8,446.60	481
	40.50	25,000.00	2,858.94	779,194.97	150,000.00	550,000.00	8,874.93	4,416.66		65,903.38		488
			16,400.00	499,000.00	200,000.00	185,000.00	114,000.00					492
	2,384.81	1,416.29		334,741.68	201,800.00	62,000.00	50,298.70			17,648.80	2,994.18	536
1,746.87	133.00			609,864.06	400,000.00	200,000.00	2,000.00				7,864.06	551
15,841.27	1,132.91	5,947.08		159,528.15	125,000.00		17,643.82			10,221.74	6,662.59	552
25,534.93	500.00	11,199.16		2,003,093.83	1,300,000.00	513,000.00	125,000.00		\$405.78	3,246.52	61,441.53	582
26,187.89				456,151.41	300,000.00	150,000.00				6,151.41		595
349.66				140,825.00	75,000.00	65,000.00		825.00				604
2,814.46			3,761.03	153,915.83	100,000.00	25,000.00	26,000.00	2,915.83				611
1,575.00	1,500.00	36,655.00		415,000.00	100,000.00	225,000.00	79,000.00			11,000.00		629
	600.00	1,492.01	24,029.55	273,987.72	218,637.68		49,000.00			6,350.04		663
1,047.05		18.00		53,318.12	50,000.00						3,318.12	667
7,858.01	11,350.95	169,325.00		715,219.90	240,000.00	400,000.00	53,675.59	3,825.00			17,719.31	680

d This item appears in Table 3 as \$60,693.37. The explanation of the discrepancy is not clear.

e The amount reported in Table 3, \$268,052.81, includes only payments to date.

f \$145,000 of this is bonds in hand of trustees.

STATISTICS OF TRANSPORTATION.

TABLE 8.—BALANCE SHEET, FOR THE CENSUS YEAR—Continued.

CABLE RAILWAYS.

No.	STATES AND CITIES.	Name of road.	Date of taking balance.	KIND OF ASSETS.				
				Total.	Cost of road and equip-ment.	Other perma-ment invest-ment.	Value of franchise.	Bills and accounts receivable.
	CALIFORNIA.							
33	Los Angeles.....	Second Street Cable R. R. Co.....	Oct. 12, 1889	\$166,646.57	\$100,026.17			
34	Los Angeles.....	Temple Street Cable R'y Co.....	July 1, 1890	315,534.41	257,999.11	\$83.80		\$2,000.00
68	San Francisco.....	Sutter Street R'y Co.....	July 1, 1890	2,676,979.16	1,467,000.00		\$1,192,581.60	
	MICHIGAN.							
291	Grand Rapids ...	Valley City Street and Cable R'y Co.....	July 1, 1890	881,132.13	772,203.53			
	MISSOURI.							
317	Kansas city.....	Kansas City Cable R'y Co.....	July 1, 1890	2,999,513.25	2,649,735.84	324,714.05		6,995.57
	PENNSYLVANIA.							
577	Philadelphia.....	Union Passenger R'y Co.....	July 1, 1890	64,983,367.16	4,877,444.78			
578	Philadelphia.....	West Philadelphia Passenger R'y Co.....	July 1, 1890	1,919,287.23	1,910,677.23			8,610.00
583	Pittsburg.....	Fort Pitt Inclined Plane R'y Co.....	July 1, 1890	99,704.51	98,524.96			18.20
584	Pittsburg.....	Monongahela Inclined Plane Co.....	July 1, 1890	316,291.24	250,000.00	35,000.00		5,000.00
592	Pittsburg.....	Pittsburg Traction Co.....	July 1, 1890	3,461,603.35	2,628,586.59	45,848.63		1,829.28
	WASHINGTON.							
677	Seattle.....	Front Street Cable R'y Co.....	July 1, 1890	641,500.00	341,500.00	5,000.00		

^a This item appears in Table 3 as \$772,193.45.

^b Of this amount \$2,100 of stock not issued. See Table 6.

^c Includes items of Seventeenth and Nineteenth Streets Passenger R'y Co. and Continental Passenger R'y Co.

TABLE 8.—BALANCE SHEET, FOR THE CENSUS YEAR—Continued.

STEAM PASSENGER RAILWAYS.

No.	STATES AND CITIES.	Name of road.	Date of taking balance.	KIND OF ASSETS.				
				Total.	Cost of road and equip-ment.	Other perma-ment invest-ment.	Value of franchise.	Bills and accounts receivable.
ALABAMA.								
5	Birmingham	Highland Avenue and Belt R. R. Co.....	July 1, 1890	\$1,234,832.27	\$891,650.29	\$254,290.42		
CALIFORNIA.								
32	Los Angeles	San Gabriel Valley Rapid Transit R'y.....	Oct. 1, 1890	405,900.44	403,550.44			\$2,350.00
55	San Bernardino.....	San Bernardino, Arrowhead and Waterman R. R. Co.	July 1, 1890	73,700.00	65,059.00			
COLORADO.								
80	Denver	Denver and Berkeley Park Rapid Transit Co	July 1, 1890	227,444.78	81,535.02		\$20,000.00	
IOWA.								
188	Cedar Rapids	Cedar Rapids and Marion R'y	July 1, 1890	131,712.59	96,169.94			
190	Council Bluffs	Lake Manawa R'y Co	July 1, 1890	100,000.00	71,000.00			27,192.00
204	Sioux city	Sioux City and Highland Park R'y Co	July 1, 1890	159,653.07	151,852.00	207.81		210.05
LOUISIANA.								
236	New Orleans.....	New Orleans, Spanish Fort and Lake R. R. Co...	July 1, 1890	505,074.72	500,000.00			
MINNESOTA.								
301	Minneapolis	Minneapolis, Lyndale and Minnetonka R'y Co...	July 1, 1890	1,288,501.92	1,084,299.34			1,300.00
MISSOURI.								
316	Kansas city	Kansas City and Independence Rapid Transit R'y	Jan. 1, 1891	1,730,743.19	1,625,900.78	28,143.21		8,707.47
NEW YORK.								
399	Brooklyn	Brooklyn Elevated R. R. Co	July 1, 1890	9,934,398.81	9,745,884.85			58,000.00
403	Brooklyn	Fulton Elevated R. R. Co	July 1, 1890	1,965,616.79	1,759,068.63			169,784.93
407	Brooklyn	Kings County Elevated R'y Co	July 1, 1890	10,792,676.95	10,004,645.07			
411	Brooklyn	Sea View R. R. Co	July 1, 1890	223,963.15	215,330.45			
449	New York	Manhattan R'y Co	July 1, 1890	45,140,183.29	618,129,484.47	621,497,833.63		3,221,189.98
450	New York	Metropolitan Elevated R'y Co.....	July 1, 1890	21,389,435.16	21,318,000.00			
PENNSYLVANIA.								
600	Reading	Mount Penn Gravity R. R. Co.....	July 1, 1890	114,390.98	112,688.50			184.10
WISCONSIN.								
698	Milwaukee	Milwaukee and Whitefish Bay R'y Co.....	Dec. 1, 1889	63,788.80	63,046.71	691.47		

^a Bonds not sold.

^b Of New York Elevated.

^c Of which \$6,401,800 is stock of other companies, and \$14,014,000 leases of road and equipment.

STREET RAILWAYS.

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TABLE 8.—BALANCE SHEET, FOR THE CENSUS YEAR—Continued.

CABLE RAILWAYS.

KIND OF ASSETS—continued.				KIND OF LIABILITIES.								No.
Cash on hand.	Supplies.	Miscellaneous items.	Profit and loss.	Total.	Capital stock.	Funded debt.	Bills and accounts payable.	Interest due.	Dividends due.	Miscellaneous items.	Profit and loss.	
	\$100.00		\$66,520.40	\$166,646.57	\$98,413.93	\$23,000.00	\$43,124.30	\$2,108.34				33
\$1,941.48	5,528.58	\$43,364.79	4,616.65	315,534.41	208,000.00	100,000.00	5,500.00			\$2,034.41		34
12,397.56	5,000.00			2,676,979.16	2,000,000.00	675,000.00		1,979.16				68
	3,832.31		105,096.29	881,132.13	177,940.60	503,500.00	199,691.53					291
9,396.73	4,276.66	4,394.40		2,999,513.25	51,575,000.00	1,350,000.00		17,625.00		14,748.52	\$42,139.73	317
4,775.94	41,870.50	59,275.94		4,983,367.16	925,000.00	750,000.00				\$2,651,892.55	656,474.61	577
1,161.35				1,919,287.23	750,000.00	996,000.00				86,055.11	87,232.12	578
26,291.24				99,704.51	60,000.00	30,000.00					9,704.51	583
24,685.26	10,653.59	750,000.00		316,291.24	140,000.00	\$100,000.00					76,291.24	584
				3,461,603.35	2,500,000.00	757,000.00	51,337.58				153,265.77	592
1,875.00	2,000.00		291,125.00	641,500.00	341,500.00	300,000.00						677

^d \$2,400,000 of this item represents amount due the Philadelphia Traction Co. for cabling road, for which bonds have not been issued.

^e Of this amount \$65,000 outstanding. See Table 6.

TABLE 8.—BALANCE SHEET, FOR THE CENSUS YEAR—Continued.

STEAM PASSENGER RAILWAYS.

KIND OF ASSETS—continued.				KIND OF LIABILITIES.								No.
Cash on hand.	Supplies.	Miscellaneous items.	Profit and loss.	Total.	Capital stock.	Funded debt.	Bills and accounts payable.	Interest due.	Dividends due.	Miscellaneous items.	Profit and loss.	
	\$1,805.88		\$87,085.68	\$1,234,832.27	\$1,000,000.00		\$16,356.63			\$218,475.64		5
			8,641.00	405,900.44	169,600.80	\$27,000.00	171,869.78	\$13,874.36		23,555.50		32
				73,700.00	66,500.00		7,000.00	200.00				55
\$485.26	622.23	\$81,116.96	43,685.31	227,444.78	60,000.00	\$33,000.00	16,981.45			117,463.33		80
520.29	450.00	101.50	34,470.86	131,712.59	66,700.00	50,000.00	12,733.10			2,279.49		188
1,684.00	124.00			100,000.00	100,000.00							190
188.55	100.00	400.00	6,694.66	159,653.07	125,000.00	30,000.00	982.57			3,670.50		204
116.08	761.00	4,197.64		505,074.72	200,000.00	300,000.00	662.99			4,411.73		236
13,012.56	25,094.62	150.00	164,645.40	1,288,501.92	385,000.00	620,000.00	283,501.92					301
4,198.63	1,121.74	62,671.36		1,730,743.19	1,000,000.00	450,000.00	178,000.00	30,000.00		58,745.93	\$13,997.26	314
12,976.88	79,869.76	37,667.32		9,934,398.81	5,000,000.00	4,750,000.00		52,485.00		117,797.53	14,116.28	399
2,263.23		34,500.00		1,965,616.79	300,000.00	1,621,000.00	1,934.71			42,682.08		403
114,119.45	25,826.58	648,085.85		10,792,676.95	3,250,000.00	7,142,500.00	192,100.00	87,641.37		102,315.59	18,119.99	407
8,632.70				223,963.15	190,752.54	27,500.00				874.57	4,836.04	411
866,032.86	209,585.24	1,216,057.11		45,140,183.29	25,891,980.00	14,500,000.00	\$643,618.40	106,358.68	\$34,173.00	\$1,980,741.01	1,983,312.20	449
5,335.59		66,099.57		21,389,435.16	6,500,000.00	14,818,000.00		60.00	11,095.90		60,279.26	450
696.54	769.59	52.25		114,390.98	100,000.00		100.00				14,290.98	600
32.59		18.03		63,788.80	60,000.00					1,475.89	2,312.91	698

^d Audited vouchers, \$627,006.99; open accounts, \$16,611.41.

^e Includes stock agreement \$9,820, convertible bond certificates \$1,905,035.10, bonds and mortgages \$24,400.

STATISTICS OF TRANSPORTATION.

TABLE 8.—BALANCE SHEET, FOR THE CENSUS YEAR—Continued.

RAILWAYS USING MORE THAN ONE KIND OF MOTIVE POWER, THE STATISTICS FOR THE SEVERAL KINDS NOT BEING SEPARABLE.

No.	STATES AND CITIES.	Name of road.	Kind of motive power used.	Date of taking balance.	KIND OF ASSETS.				
					Total.	Cost of road and equip-ment.	Other perma-ment invest-ment.	Value of franchise.	Bills and accounts re-ceiveable.
ALABAMA.									
3	Birmingham...	Birmingham Railway and Electric Co.	Animal and steam	Dec. 1, 1890	\$3, 184, 370. 71	\$3, 041, 318. 00			\$12, 632. 51
9	Mobile	Mobile Street R'y Co	Animal and steam	July 1, 1890	1, 133, 689. 28	1, 048, 735. 64	\$62, 725. 97		
CALIFORNIA.									
31	Los Angeles	Pacific R'y Co	Animal and cable.	July 1, 1890	5, 165, 696. 77	4, 343, 595. 53	a750, 000. 00		
38	Oakland	Oakland R. R. Co.	Animal, steam, and cable.	July 1, 1890	548, 473. 11	b548, 473. 11			
61	San Francisco	Ferris and Cliff House R'y Co.	Steam and cable	July 1, 1890	2, 014, 740. 39	1, 928, 019. 70			
62	San Francisco	Geary Street Park and Ocean R. R. Co.	Cable and steam	July 1, 1890	451, 970. 46	420, 329. 19	12, 101. 25		
63	San Francisco	Market Street Cable R'y Co.	Animal, steam, and cable.	July 1, 1890	8, 474, 413. 15	8, 078, 699. 65	84, 580. 44		185, 000. 00
COLORADO.									
81	Denver	Denver City Cable R'y Co. (c).	Animal and cable.	Oct. 16, 1890	6, 574, 459. 40	6, 489, 413. 17			3, 510. 06
83	Denver	Denver Tramway Co	Cable and electric.	Jan. 1, 1891	3, 042, 223. 39	2, 367, 405. 22	64, 001. 24		
CONNECTICUT.									
90	Hartford	Hartford and Wethersfield Horse R'y Co.	Animal and electric.	July 1, 1890	452, 109. 20	447, 553. 75			
DELAWARE.									
104	Wilmington ...	Wilmington City R'y Co.	Animal and electric.	July 1, 1890	347, 704. 70	332, 502. 67	9, 407. 11		431. 20
DIST. COLUMBIA.									
112	Washington ...	Washington and Georgetown R. R. Co.	Animal and cable.	July 1, 1890	1, 600, 298. 71	e974, 720. 44	450, 000. 00		
GEORGIA.									
124	Atlanta	Metropolitan Street R. R. Co.	Animal and steam	July 1, 1890	314, 925. 84	288, 117. 86			11, 986. 19
125	Augusta	Augusta and Summerville R. R. Co.	Animal and electric.	July 1, 1890	378, 101. 46	f373, 581. 67			
128	Columbus	Columbus R. R. Co	Animal and steam	July 1, 1890	146, 452. 19	145, 879. 28			
ILLINOIS.									
142	Chicago	Chicago City R'y Co	Animal and cable.	Jan. 1, 1891	13, 363, 787. 66	11, 078, 610. 96	550, 036. 00		1, 261, 282. 49
145	Chicago	North Chicago Street R. R. Co.	Animal and cable.	July 1, 1890	8, 152, 051. 18	5, 992, 769. 69	2, 014, 295. 00		22, 988. 00
147	Chicago	West Chicago Street R. R. Co.	Animal and cable.	Jan. 1, 1891	15, 525, 143. 45	9, 809, 263. 13	5, 282, 036. 69		60, 505. 26
IOWA.									
195	Des Moines ...	Des Moines Street R. R. Co.	Animal and electric.	Oct. 1, 1890	1, 723, 317. 21	410, 275. 02	1, 291, 200. 00		
KANSAS.									
212	Kansas city ...	InterstateConsolidated Rapid Transit R'y Co.	Cable and steam	Jan. 1, 1891	3, 849, 838. 24	1, 815, 875. 52	111, 085. 01	\$1,700,000.00	14, 540. 91
KENTUCKY.									
228	Louisville ...	Louisville R'y Co.	Animal and electric.	July 1, 1890	746, 622. 49	g172, 827. 89	2, 350. 00		
LOUISIANA.									
235	New Orleans ...	New Orleans City and Lake R. R. Co.	Animal and steam	July 1, 1890	2, 021, 168. 00	1, 513, 694. 23		367, 500. 00	h35, 189. 75
MARYLAND.									
244	Baltimore	Baltimore Traction Co.	Animal and cable.	July 1, 1890	6, 546, 918. 51	i6, 496, 731. 28			
MASSACHUSETTS.									
253	Boston	Lynn and Boston R. R. Co.	Animal and electric.	Oct. 1, 1890	1, 111, 261. 76	1, 073, 684. 54			4, 476. 34
268	Lowell	Lowell and Dracut Street R'y Co.	Animal and electric.	July 1, 1890	317, 752. 76	310, 028. 29			
273	Newburyport ...	Newburyport and Amesbury Horse R. R. Co.	Animal and electric.	Oct. 1, 1890	343, 044. 59	335, 419. 59			2, 001. 59
279	Springfield ...	Springfield Street R'y Co	Animal and electric.	Oct. 1, 1890	542, 884. 06	529, 085. 08			3, 354. 66
MICHIGAN.									
290	Grand Rapids ...	Street R'y Co. of Grand Rapids	Animal and steam	July 1, 1890	1, 043, 188. 67	642, 534. 13		400, 000. 00	654. 54
296	Saginaw	Saginaw Union Street R'y	Animal and electric.	July 1, 1890	410, 900. 00	347, 000. 00	j19, 000. 00		
MINNESOTA.									
304	Saint Paul	Saint Paul City R'y Co.	Animal, cable, and electric.	July 1, 1890	8, 390, 138. 72	k3, 195, 474. 85		4, 850, 000. 00	48, 176. 31
MISSOURI.									
315	Kansas city ...	Grand Avenue R'y Co.	Steam and cable	July 1, 1890	2, 474, 865. 58	2, 342, 270. 12	30, 432. 75		7, 941. 71
318	Kansas city ...	Metropolitan Street R'y Co.	Animal, cable, and electric.	July 1, 1890	4, 923, 585. 80	4, 719, 752. 30	29, 135. 05		303. 17
334	Saint Louis ...	Missouri R. R. Co.	Animal and cable.	July 1, 1890	1, 519, 407. 92	1, 250, 077. 89	210, 744. 49		55, 243. 45

a Stock of other companies.

b This appears not to include the item "land and buildings", \$7,500, included in the cost of road and equipment in Table 3.

c Includes balance sheet for Denver City R'y Co.

d Includes \$468,300 stock in the treasury.

e This does not include cost of changing Seventh street line to cable.

f This item appears in Table 3 as \$332,811.90; the explanation of the discrepancy is not clear. The line was sold to the Augusta R'y Co. June 24, 1890.

STREET RAILWAYS.

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TABLE 8.—BALANCE SHEET, FOR THE CENSUS YEAR—Continued.

RAILWAYS USING MORE THAN ONE KIND OF MOTIVE POWER. THE STATISTICS FOR THE SEVERAL KINDS NOT BEING SEPARABLE.

KIND OF ASSETS—continued.				KIND OF LIABILITIES.								No.
Cash on hand.	Supplies.	Miscellaneous items.	Profit and loss.	Total.	Capital stock.	Funded debt.	Bills and accounts payable.	Interest due.	Dividends due.	Miscellaneous items.	Profit and loss.	
\$78,249.93		\$52,170.27		\$3,184,370.71	\$1,901,000.00	\$987,000.00	\$255,166.42	\$20,327.50		\$8,337.55	\$12,539.24	3
15,227.02	\$1,946.50	5,054.15		1,133,689.28	500,000.00	500,000.00	70,821.02	13,635.00	\$49,233.26			9
11,371.70	15,409.09		\$45,320.45	5,165,696.77	2,500,000.00	1,319,000.00	1,237,831.75			108,865.02		31
				548,473.11	250,000.00	125,000.00	80,620.34			20,021.19	72,831.58	38
44,449.69	15,082.06		27,188.94	2,014,740.39	250,000.00	1,700,000.00	37,740.39	27,000.00				61
17,279.53	209.10	2,051.39		451,970.46	375,000.00				57.50	8,689.23	68,223.73	62
57,794.59	52,879.31	15,459.16		8,474,413.15	5,000,000.00	3,000,000.00		3,600.00		33,296.01	437,517.14	63
66,410.97	7,411.95	7,713.25		6,574,459.40	2,777,000.00	3,313,000.00	410,000.00			3,919.02	70,540.38	81
472,624.20	14,999.30	123,193.43		3,042,223.39	1,000,000.00	1,513,000.00	334,554.69				194,668.70	83
2,897.28	1,658.17			452,109.20	200,000.00	100,000.00	84,785.07				67,324.13	90
1,854.90	3,508.82			347,704.70	168,653.00	130,000.00	35,000.00			1,475.00	12,576.70	104
175,578.27				1,600,298.71	500,000.00	1,000,000.00	16,095.24				84,203.47	112
19.79	4,500.00		14,821.79	314,925.84	100,000.00	161,000.00	48,314.70			5,611.14		124
				378,101.46	200,000.00	86,500.00	6,000.00			85,601.46		125
572.91				146,452.19	25,000.00	76,500.00	20,599.89				24,352.30	128
438,775.77	35,082.44			13,363,787.66	5,000,000.00	4,499,500.00	1,273,251.09	11,074.00		1,958,541.67	621,420.90	142
64,105.82	41,257.59	16,635.08		8,152,051.18	5,000,000.00	2,350,000.00	513,760.00	5,775.00		36,662.87	245,853.31	145
127,244.83	46,101.35	199,992.19		15,525,143.45	10,000,000.00	4,100,000.00	487,594.00	9,994.00		927,555.45		147
8,482.33	4,708.66	8,651.20		1,723,317.21	1,000,000.00	600,000.00	54,397.87			68,919.34		195
29,349.92	10,568.92		168,417.96	3,849,838.24	1,700,000.00	1,700,000.00	386,394.04	38,430.00		25,014.20		212
19,359.88	65,675.48	486,409.24		746,622.49	500,000.00					56,030.59	190,591.90	228
65,755.56	35,516.54	3,511.92		2,021,168.00	1,500,000.00	495,200.00		16,236.00	9,732.00			235
30,414.52	7,104.08	8,922.52	3,746.11	6,516,918.51	5,000,000.00	1,500,000.00				46,918.51		244
7,280.37	25,820.51			1,111,261.76	500,000.00	425,000.00	93,868.71	9,083.39	212.00		83,097.66	253
2,343.24	5,381.23			317,752.76	200,000.00	50,000.00	2,783.06			57,281.00	7,688.70	263
404.29	5,219.12			343,044.59	120,000.00	47,000.00	160,229.58			7,785.54	8,029.47	273
1,965.32	8,479.00			542,884.06	400,000.00		74,934.70			1,573.10	66,376.26	279
				1,043,188.67	400,000.00	600,000.00	35,595.62			7,593.05		290
3,928.91			40,971.09	410,900.00	200,000.00	150,000.00	60,900.00					296
19,401.54	145,133.12	131,952.90		8,390,138.72	5,000,000.00	2,170,000.00	994,185.10			170,009.91	55,943.71	304
46,862.50	29,286.17	18,072.33		2,474,865.58	1,200,000.00	1,200,000.00	40,252.79				34,612.79	315
34,239.80	19,381.28	120,774.20		4,923,585.80	2,788,400.00	2,012,000.00	1,100.00		40.00		122,045.80	318
617.09	2,725.00			1,519,407.92	800,000.00	500,000.00	83,300.00	7,500.00	16,000.00		112,607.92	334

g This does not include the expenditure of the lessors, which is, however, included in Table 3

h Securities held as reserve.

i Includes cost of new cable road not operating at date of reports.

j "Other permanent investment", here given separately, is in Table 3 included in "cost of road and equipment".

k This includes over \$500,000 expended upon the construction of lines not in operation at date of report.

STATISTICS OF TRANSPORTATION.

TABLE 8.—BALANCE SHEET, FOR THE CENSUS YEAR—Continued.

RAILWAYS USING MORE THAN ONE KIND OF MOTIVE POWER, ETC.—Continued.

No.	STATES AND CITIES.	Name of road.	Kind of motive power used.	Date of taking balance.	KIND OF ASSETS.				
					Total.	Cost of road and equipment.	Other permanent investment.	Value of franchise.	Bills and accounts receivable.
	NEBRASKA.								
355	Lincoln.....	Capital Heights Street R'y Co.	Animal and electric...	Jan. 1, 1891	\$26,500.00	\$26,500.00	-----	-----	-----
	NEW JERSEY.								
373	Jersey city....	North Hudson County R'y Co.	Animal, steam, and cable.	Jan. 1, 1891	3,253,454.98	1,431,773.08	\$1,418,836.90	-----	\$367,376.98
	NEW YORK.								
384	Albany.....	Albany R'y.....	Animal and electric...	July 1, 1890	805,894.39	431,706.19	341,883.61	-----	-----
386	Albany.....	Watervliet Turnpike and R. R. Co.	Animal and electric...	Oct. 1, 1890	653,621.77	641,393.60	-----	-----	-----
391	Binghamton...	Binghamton Street R. R. Co....	Animal and electric...	July 1, 1890	302,400.28	259,402.93	-----	-----	-----
402	Brooklyn.....	Coney Island and Brooklyn R. R. Co.	Animal and electric...	July 1, 1890	1,022,501.45	858,283.20	123,700.57	-----	-----
415	Buffalo.....	Buffalo Street R. R. Co.....	Animal and electric...	July 1, 1890	1,049,135.02	1,024,053.54	-----	-----	-----
419	Elmira.....	Elmira and Horseheads R'y Co.	Animal and steam....	July 1, 1890	198,332.69	159,840.83	6,790.00	-----	-----
460	New York.....	Third Avenue R. R. Co.....	Animal and cable.....	July 1, 1890	5,629,912.73	a5,420,968.82	15,000.00	-----	-----
486	Troy.....	Troy and Lansingburg R. R. Co.	Animal and electric...	July 1, 1890	829,050.70	759,313.93	5,906.67	-----	-----
	OHIO.								
497	Cincinnati....	Cincinnati Street R'y Co.....	Animal, cable, and electric.	July 1, 1890	5,847,075.78	5,617,429.35	158,267.75	-----	3,073.14
501	Cleveland.....	Brooklyn Street R. R. Co. and South Side Street R. R. Co.	Animal and electric...	Jan. 1, 1891	1,901,215.34	1,358,147.26	b526,308.58	-----	-----
	PENNSYLVANIA.								
564	Philadelphia..	Frankford and Southwark Passenger R. R. Co.	Animal and steam....	July 1, 1890	1,161,029.38	1,052,763.55	-----	-----	-----
572	Philadelphia..	Philadelphia Traction Co.....	Animal and cable.....	July 1, 1890	6,678,557.05	788,333.25	c2,589,925.76	-----	-----
580	Pittsburg.....	Citizens' Traction Co.....	Animal and cable.....	July 1, 1890	4,684,490.28	1,937,693.57	c2,200,987.76	-----	-----
585	Pittsburg.....	Mount Oliver Incline R'y Co.	Animal and cable.....	July 1, 1890	124,460.13	119,599.52	-----	-----	-----

a A discrepancy of 2 cents appears between this item and the same in Table 3.

b Represents stock dividend of Brooklyn, 1883, \$232,000; also stock of South Side held by Brooklyn, \$294,308.58.

c Represents Philadelphia and Darby railroad stock, valuations \$22,360; West Philadelphia Railroad stock, valuations \$1,492,565.76; Union railroad stock, valuations \$925,000; Catharine and Bainbridge railroad stock, valuations \$150,000.

STREET RAILWAYS.

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TABLE 8.—BALANCE SHEET, FOR THE CENSUS YEAR—Continued.

RAILWAYS USING MORE THAN ONE KIND OF MOTIVE POWER, ETC.—Continued.

KIND OF ASSETS—continued.				KIND OF LIABILITIES.								No.
Cash on hand.	Supplies.	Miscellaneous items.	Profit and loss.	Total.	Capital stock.	Funded debt.	Bills and accounts payable.	Interest due.	Dividends due.	Miscellaneous items.	Profit and loss.	
				\$26,500.00	\$13,000.00	\$13,000.00	\$220.00	\$280.00				355
		\$35,468.02		3,253,454.98	477,400.00	2,528,500.00		18,522.50	\$19,096.00	\$61,322.15	\$148,614.33	373
\$8,785.20	\$11,115.69	753.59	\$11,650.11	805,894.39	275,000.00	500,000.00	8,000.00	3,373.74		19,520.65		384
1,008.29		11,219.88		653,621.77	240,000.00	389,000.00	16,600.00	4,020.00		2,095.62	1,906.15	386
27,886.90		6,819.45	8,291.00	302,400.28	113,531.25	160,000.00	15,038.75	2,850.00		10,980.28		391
23,146.12	16,079.76	1,291.80		1,022,501.45	500,000.00	446,000.00	7,040.45	4,480.00	65.00	5,600.00	59,316.00	402
2,144.11	14,453.47	8,483.90		1,049,135.02	100,000.00	806,000.00	31,700.00	1,750.00		3,350.00	106,335.02	415
860.11	5,780.98	25,060.77		198,332.69	68,000.00	100,000.00	29,369.43				963.26	419
108,465.32		7,723.09	77,755.50	5,629,912.73	2,000,000.00	3,500,000.00		87,500.00		42,412.73		460
46,397.96	17,432.14			829,050.70	400,000.00	300,155.00	13,000.00	4,378.88		13,087.38	98,429.44	486
28,395.45	38,323.78	258.65	1,327.66	5,847,075.78	5,395,000.00	400,000.00		13,532.50		38,543.28		497
11,659.50	5,100.00			1,901,215.34	650,000.00	900,000.00	209,538.55			12,564.61	129,112.18	501
108,265.83				1,161,029.38	1,000,000.00	100,000.00				1,230.45	59,798.93	564
144,408.85	191,530.28	22,964,358.91		6,678,557.05	4,000,000.00	1,231,500.00	975,000.00			472,057.05		572
50,554.89		495,254.06		4,684,490.28	2,500,000.00	1,378,000.00	200,000.00			563,883.78	42,606.50	580
4,860.61				124,460.13	54,000.00	44,500.00	5,000.00				20,960.13	585

d Includes indebtedness to Philadelphia Traction Co. by leased roads for introduction of cables and extension of horse lines; that is, expended on Union R. R. Co. \$2,400,000, on West Philadelphia \$150,000, etc.

e Includes cost of road and equipment of horse line.

TABLE 9.—TAXES, LICENSES, AND OTHER PUBLIC CHARGES, FOR THE CENSUS YEAR.

RAILWAYS OPERATED BY ANIMAL POWER.

No.	STATES AND CITIES.	Name of road.	PAYMENTS.					
			Total.	General taxes.	Specific taxes (on earnings, dividends, etc.).	Car licenses.	Other licenses.	Tolls over bridges and viaducts.	Constructing and maintaining pavements not used by company.
ALABAMA.								
9	Mobile	Mobile Street R'y Co.	\$7,894.42	\$2,410.93		\$75.00		\$5,408.49
ARKANSAS.								
15	Fort Smith	Fort Smith Street R'y Co.	549.00	369.00		180.00		
16	Helena	Citizens' Street R'y Co.	200.00	200.00				
17	Hot Springs	Hot Springs Street R. R. Co.	372.00	372.00				
18	Little Rock	Capital Street R'y Co.	2,375.00	1,475.00		900.00		
20	Pine Bluff	Citizens' Street R'y Co.	453.00	363.00		90.00		
22	Texarkana	Texarkana Street R'y Co.	180.00	180.00				
CALIFORNIA.								
23	Anaheim	Anaheim Street Car Co.	5.00	5.00				
24	Fresno	Fresno R. R. Co.	276.00	276.00				
29	Los Angeles	Main Street and Agricultural Park R. R. Co.	2,831.11	1,300.81		380.00		1,150.30
30	Los Angeles	Mateo and Santa Fe Avenue R'y Co.	40.00	40.00				
36	Oakland	Alameda, Oakland and Piedmont R. R. Co.	200.00	150.00		50.00		
37	Oakland	Oakland, Brooklyn and Fruitvale R. R. Co.	362.97	362.97				
39	Ontario	Ontario and San Antonio Heights R. R. Co.	99.10	99.10				
40	Pasadena	Alhambra and Pasadena Street R'y Co.	83.00	83.00				
41	Pasadena	City R'y Co.	173.90	173.90				
43	Pasadena	Pasadena Street R. R. Co.	159.46	159.46				
44	Pasadena	West Pasadena R'y Co.	175.00	175.00				
45	Pomona	Orange Grove Street R. R. Co.	50.95	50.95				
47	Pomona	San Antonio and Holt Avenue R. R. Co.	55.00	55.00				
48	Redlands	Redlands Street R'y Co.	9.65	9.65				
49	Riverside	Hall's Addition Street R'y Co.	46.30	46.30				
50	Riverside	Riverside and Arlington R'y Co.	54.80	54.80				
51	Riverside	Riverside R'y Co.	84.00	84.00				
53	San Bernardino	City Street R. R. Co.	156.17	96.17		60.00		
57	San Diego	San Diego Street Car Co.	1,000.00	1,000.00				
59	San Francisco	Central R. R. Co.	3,643.22	2,023.53		325.00	\$9.00	1,285.69
60	San Francisco	City R. R. Co.	9,122.19	3,932.80		345.00	9.50	4,834.89
64	San Francisco	North Beach and Mission R. R. Co.	24,998.41	1,402.83		645.25	2,950.33	
66	San Francisco	Potrero and Bay View R. R. Co.	323.91	260.91		60.00	3.00	
69	San Jose	First Street and Willow Street R. R.	300.00	230.00		70.00		
70	San Jose	North Side Horse R. R. Co.	280.00	250.00		30.00		
71	San Jose	San Jose and Santa Clara R'y Co.	50.00			50.00		
72	San Luis Obispo	San Luis Street R'y Co.	24.00			24.00		
73	Santa Ana	Santa Ana, Orange and Tustin Street R'y Co.	301.60	301.60				
74	Santa Barbara	Santa Barbara and Citizens' Street R'y Co.	472.00	400.00		72.00		
75	Santa Cruz	Pacific Avenue R. R. Co.	548.80	448.80		100.00		
76	Santa Rosa	South Side Street R'y Co.	96.15	96.15				
77	Stockton	Stockton Street R. R. Co.	464.00	450.00		14.00		
78	Woodland	Woodland Street R. R. Co.	42.90	42.90				
COLORADO.								
82	Denver	Denver City R'y Co.	9,898.90	6,598.90		3,300.00		
85	Pueblo	Pueblo City R'y Co.	2,625.44	2,625.44				
86	Trinidad	Trinidad Street R'y Co.	80.00	80.00				
CONNECTICUT.								
88	Bridgeport	Bridgeport Horse R. R. Co.	1,734.82	1,734.82				
89	Danbury	Danbury and Bethel Horse R'y Co.	500.00	420.00			80.00	
92	New Britain	New Britain Tramway Co.	110.00	110.00				
93	New Haven	Fair Haven and Westville R. R. Co.	3,600.00	3,600.00				
94	New Haven	New Haven and Centerville Horse R. R. Co.	400.00	400.00				
95	New Haven	New Haven and West Haven Horse R. R. Co.	1,314.00	1,314.00				
96	New Haven	State Street Horse R. R. Co.	819.50	819.50				
98	Norwalk	Norwalk Horse R'y Co.	795.00	795.00				
99	Norwich	Norwich Street R'y Co.	602.50	459.45				
100	Stamford	Stamford Street R. R. Co.	90.00	90.00			3.00	140.05
101	Waterbury	Waterbury Horse R. R. Co.	1,000.00	1,000.00				
102	Westport	Westport and Saugatuck Horse R. R. Co.	172.50	172.50				
DELAWARE.								
104	Wilmington	Wilmington City R'y Co.	661.86	516.86			145.00	
DIST. OF COLUMBIA.								
105	Washington	Anacostia and Potomac River R. R. Co.	99.90	99.90				
107	Washington	Capitol, North O Street and South Washington R'y Co.	3,300.01	3,300.01				
108	Washington	Columbia R'y Co.	1,572.76	1,500.01	\$72.75			
111	Washington	Metropolitan R. R. Co.	23,172.99	15,574.76				
112	Washington	Washington and Georgetown R. R. Co.	28,271.75	23,444.00				7,598.23
FLORIDA.								
113	Fort Meade	Fort Meade Street R'y Co.	59.92	59.92				
114	Jacksonville	Jacksonville Street R. R. Co.	862.80	862.80				
115	Jacksonville	Main Street R'y Co.	70.70	70.70				
118	Pensacola	Pensacola Street Car Co.	263.35	263.35				

a Given in Table 7 as \$4,992.40.

STREET, RAILWAYS.

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TABLE 9.—TAXES, LICENSES, AND OTHER PUBLIC CHARGES, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued

No.	STATES AND CITIES.	Name of road.	PAYMENTS.						
			Total.	General taxes.	Specific taxes (on earnings, dividends, etc.).	Car licenses.	Other licenses.	Tolls over bridges and viaducts.	Constructing and maintaining pavements not used by company.
GEORGIA.									
122	Atlanta	Atlanta Street R. R. Co	\$1,736.87	\$300.00		\$100.00		\$200.00	\$1,136.87
125	Augusta	Augusta and Summerville R. R. Co	895.62	895.62					
127	Brunswick	Brunswick Street R. R. Co	800.00	800.00					
129	Covington	Covington and Oxford Street R. R. Co	145.00	145.00					
132	Rome	North and South Street R. R. Co	150.00	150.00					
135	Savannah	Savannah Street and Rural Resort R. R. Co	833.24	529.24			\$304.00		
ILLINOIS.									
136	Alton	Alton and Upper Alton Horse Railway and Carry- ing Co.	315.18	315.18					
138	Aurora	Aurora City R'y Co	200.00	200.00					
139	Belleville	Citizens' Horse R'y Co	180.00	180.00					
140	Bloomington	Bloomington City R'y	880.00	880.00					
141	Cairo	Cairo Street R'y Co	257.88	108.61					149.27
146	Chicago	South Chicago City R'y Co	212.00	212.00					
148	Chillicothe	People's Street R. R. Co	38.00	38.00					
149	Danville	Citizens' Street R'y Co	403.10	403.10					
159	Peoria	Fort Clark Horse R'y Co	490.92	490.92					
160	Rockford	Rockford City R'y Co	293.95	293.95					
162	Springfield	Citizens' Street R'y Co	461.25	379.25		82.00			
163	Springfield	Springfield City R'y Co	835.96	797.46		38.50			
164	Urbana	Urbana and Champaign Street R'y Co	425.68	425.68					
INDIANA.									
165	Anderson	Anderson Street R'y Co	64.00	64.00					
167	Evansville	Evansville Street R'y Co	1,244.51	1,244.51					
169	Fort Wayne	C. L. Centlivre Street R'y Co	118.85	118.85					
170	Fort Wayne	Fort Wayne Street R. R. Co	1,670.79	1,670.79					
171	Greencastle	Greencastle City Street R. R. Co	30.00	30.00					
172	Indianapolis	Citizens' Street R. R. Co	6,879.54	6,879.54					
175	Logansport	Logansport R'y Co	176.18	176.18					
176	Madison	Madison Street R'y Co	69.20	69.20					
178	Michigan city	Citizens' Street R'y Co	25.00	25.00					
180	New Albany	New Albany R'y Co	1,757.06	1,757.06					
183	Terre Haute	Terre Haute Street R'y Co	1,507.00	1,507.00					
184	Terre Haute	Vigo County Street R'y Co	32.00	32.00					
IOWA.									
186	Boone	Boone and Boonesboro Street R'y Co	126.00	96.00		30.00			
187	Burlington	Burlington Street R. R.	125.00	125.00					
189	Centerville	People's Street R'y Co	40.00	40.00					
192	Davenport	Davenport and Rock Island R'y Co	7,166.73	6,466.73		500.00	200.00		
196	Dubuque	Dubuque Street R'y Co	515.47	515.47					
199	Keokuk	Keokuk Street R'y Co	178.40	178.40					
200	Lyons	Clinton and Lyons Horse R'y Co	747.18	747.18					
201	Marshalltown	Marshalltown Passenger R'y Co	121.52	121.52					
203	Red Oaks	Red Oaks Street R'y Co	48.00	38.00		10.00			
KANSAS.									
208	Arkansas city	Arkansas City Street R'y Co	290.56	290.56					
210	Cottonwood Falls	Consolidated Street R'y Co	104.98	104.98					
211	Hutchinson	Hutchinson Street R'y Co	160.00	160.00					
213	Lawrence	Lawrence Transportation Co.	258.00	188.00		70.00			
214	Leavenworth	Leavenworth and Suburban R'y	316.10	316.10					
216	McPherson	McPherson Street R'y Co	100.00	100.00					
217	Newton	Newton City Street R'y Co	230.61	230.61					
219	Salina	Salina R'y Co	135.00	135.00					
221	Topeka	Topeka City R'y Co	2,122.68	1,912.68		210.00			
223	Wichita	Wichita Rapid Transit Co	45.60	45.60				10.00	
224	Winfield	Union Street R'y Co	110.42	100.42					
KENTUCKY.									
226	Covington	South Covington and Cincinnati Street R'y Co	39,643.48	3,711.09		1,671.50		34,260.89	
227	Henderson	Henderson Street R'y Co	74.70	74.70					
228	Louisville	Louisville R'y Co	23,826.88	12,463.95			11,362.93		
229	Maysville	Maysville Street Railroad and Transfer Co.	102.65	102.65					
LOUISIANA.									
232	New Orleans	Canal and Claiborne R. R. Co	4,023.22	4,023.22	\$1,000.00				
233	New Orleans	Crescent City R. R. Co	22,488.40	20,488.40			2,000.00		
234	New Orleans	New Orleans and Carrollton R. R. Co	21,734.89	19,714.89		2,000.00	20.00		
237	New Orleans	Orleans R. R. Co	6,907.74	6,407.74		500.00			
238	New Orleans	Saint Charles Street R. R. Co	22,866.00	20,866.00			2,000.00		
MAINE.									
239	Biddeford	Biddeford and Saco R. R. Co	70.00	70.00					
240	Fryeburg	Fryeburg Horse R. R. Co	0.96	0.96					
241	Portland	Portland R. R. Co	1,949.55	919.95	1,029.60				

TABLE 9.—TAXES, LICENSES, AND OTHER PUBLIC CHARGES, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	PAYMENTS.					
			Total.	General taxes.	Specific taxes (on earnings, dividends, etc.).	Car licenses.	Other licenses.	Tolls over bridges and viaducts.	Constructing and maintaining pavements not used by company.
MARYLAND.								
242	Baltimore.....	Baltimore and Powhatan R'y Co.....	\$84.50	\$84.50				
243	Baltimore.....	Baltimore City Passenger R'y Co.....	118,619.02	40,844.45	\$77,084.77	\$652.00	\$37.80	
244	Baltimore.....	Baltimore Traction Co.....	46,972.70	16,031.46	30,634.74	260.00	46.50	
245	Baltimore.....	Baltimore Union Passenger R'y Co.....	25,568.30	5,986.25	19,359.97	222.08		
246	Baltimore.....	Highlandtown and Point Breeze R'y Co.....	2,244.07	368.17	1,818.90	57.00		
248	Baltimore.....	North Baltimore Passenger R'y Co.....	31,647.72	9,100.75	22,246.97	300.00		
MASSACHUSETTS.								
253	Boston.....	Lynn and Boston R. R. Co.....	9,597.01	9,597.01				
255	Boston.....	Newton Street R'y Co.....	20.97		20.97			
256	Boston.....	North Woburn Street R. R. Co.....	1,110.12	1,110.12				
260	Brockton.....	Brockton Street R'y Co.....	2,499.08	2,499.08				
262	Fall River.....	Globe Street R'y Co.....	5,810.28	5,810.28				
263	Fitchburg.....	Fitchburg Street R'y Co.....	981.35	981.35				
264	Gloucester.....	Gloucester Street R'y Co.....	451.80	451.80				
265	Haverhill.....	Haverhill and Groveland Street R'y Co.....	1,965.26	1,965.26				
266	Holyoke.....	Holyoke Street R'y Co.....	649.11	649.11				
267	Lawrence.....	Merrimack Valley Horse R. R. Co.....	1,424.14	1,424.14				
269	Lowell.....	Lowell Horse R. R. Co.....	2,102.08	2,102.08				
271	Natick.....	Natick and Cochituate Street R'y Co.....	422.95	422.95				
272	New Bedford.....	Union Street R'y Co.....	4,503.54	4,503.54				
275	Northampton.....	Northampton Street R'y Co.....	145.50	145.50				
277	Pittsfield.....	Pittsfield Street R'y Co.....	438.64	438.64				
280	Taunton.....	Taunton Street R'y Co.....	1,113.97	1,113.97				
281	Wareham.....	East Wareham, Onset Bay and Point Independence Street R'y Co.....	88.16	88.16				
282	Worcester.....	Worcester Consolidated Street R'y Co.....	7,121.96	7,121.96				
MICHIGAN.								
285	Detroit.....	Detroit City R'y.....	a27,790.00	17,290.00	10,500.00			
288	Detroit.....	Fort Wayne and Elmwood R'y Co.....	3,833.88	3,833.88				
291	Grand Rapids.....	Valley City Street and Cable R'y Co.....	291.83	271.83		20.00		
292	Jackson.....	Jackson City R'y Co.....	60.00	60.00				
295	Saginaw.....	City of Saginaw Street R. R. Co.....	617.46	617.46				
MINNESOTA.								
299	Duluth.....	Duluth Street R'y Co.....	1,422.80	1,422.80				
300	Mankato.....	Mankato Street R'y Co.....	143.39	143.39				
302	Minneapolis.....	Minneapolis Street R'y Co.....	11,941.92	11,941.92				
303	Saint Cloud.....	Saint Cloud City Street Car Co.....	54.15	54.15				
306	Winona.....	Winona City R'y Co.....	253.51	253.51				
MISSISSIPPI.								
307	Enterprise.....	Enterprise Street R'y Co.....	29.50	4.50		10.00		\$15.00
309	Meridian.....	Meridian Street R. R. Co.....	37.50				37.50	
310	Natchez.....	Natchez Street R. R. Co.....	250.00	250.00				
MISSOURI.								
312	Clinton.....	Clinton Street R'y Co.....	30.00			30.00		
313	Hannibal.....	Hannibal R'y Co.....	100.00	100.00				
315	Kansas city.....	Grand Avenue R'y Co.....	241.62	78.45		163.17		
326	Saint Louis.....	Baden and Saint Louis R. R.....	115.84	115.84				
327	Saint Louis.....	Benton-Bellefontaine R'y Co.....	2,650.00	1,500.00		650.00	500.00	
328	Saint Louis.....	Cass Avenue and Fair Ground R'y Co.....	3,000.00	2,250.00		750.00		
330	Saint Louis.....	Forest Park, Laclede and Fourth Street R'y Co.....	3,000.25	2,450.25		550.00		
331	Saint Louis.....	Fourth Street and Arsenal R'y Co.....	716.42	466.42		250.00		
332	Saint Louis.....	Jefferson Avenue R. R. Co.....	1,774.67	1,399.67		375.00		
334	Saint Louis.....	Missouri R. R. Co.....	3,289.00	2,714.00		575.00		
335	Saint Louis.....	Mound City Street R'y Co.....	2,285.69	1,735.69		550.00		
336	Saint Louis.....	Northern Central R'y Co.....	6,000.00	2,400.00	3,000.00	600.00		
339	Saint Louis.....	Saint Louis R. R. Co.....	11,400.00	4,400.00	5,000.00	1,500.00	500.00	
340	Saint Louis.....	Southern R'y Co.....	2,402.98	1,750.98		625.00	27.00	
341	Saint Louis.....	Union Depot R. R. Co.....	4,384.69	3,474.69		800.00	110.00	
342	Saint Louis.....	Union R. R. Co.....	3,000.00	2,250.00		750.00		
344	Springfield.....	Citizens' R'y Co.....	727.81	622.81		105.00		
MONTANA.								
348	Helena.....	Helena Street R'y Co.....	300.00	300.00				
NEBRASKA.								
350	Fremont.....	Fremont Street R'y Co.....	2,200.00	200.00				
351	Grand Island.....	Grand Island Street R'y Co.....	110.90	100.90		10.00		\$2,000.00
352	Hastings.....	Citizens' Street R'y Co.....	32.00	32.00				
356	Lincoln.....	Lincoln Street R'y Co.....	536.66	536.66				
360	Norfolk.....	Norfolk Street R'y Co.....	77.23	62.23				
362	Wymore.....	Wymore and Blue Springs R'y Co.....	136.68	136.68			15.00	
363	York.....	York Street R'y Co.....	28.00	28.00				

a Given in Table 7 as \$27,790.58.

STREET RAILWAYS.

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TABLE 9.—TAXES, LICENSES, AND OTHER PUBLIC CHARGES, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	PAYMENTS.						Con- structing and main- taining pave- ments not used by company.
			Total.	General taxes.	Specific taxes (on earnings, dividends, etc.).	Car licenses.	Other licenses.	Tolls over bridges and viaducts.	
NEW JERSEY.									
370	Camden	Camden Horse R. R. Co.	\$941.71	\$631.71	\$310.00				
372	Jersey city	Jersey City and Bergen R. R. Co.	7,641.69	7,641.69					
374	Keyport	Keyport and Matawan Street R'y Co.	60.00	60.00					
377	Newark	Newark and South Orange Horse Car R. R.	1,461.66			\$519.90		\$941.76	
379	Orange	Orange, Cross Town and Bloomfield R'y Co.	735.25	429.75		305.50			
380	Paterson	Paterson R'y Co.	51,526.25	1,391.25	135.00				
381	Phillipsburg	Phillipsburg Car R. R. Co.	247.96	50.46			\$10.00	187.50	
NEW MEXICO.									
382	Albuquerque	Albuquerque Street R. R. Co.	114.60	114.60					
383	Las Vegas	Las Vegas Street R'y Co.	135.00	135.00					
NEW YORK.									
385	Albany	North and East Greenbush Horse R. R. Co.	265.18	265.18					
387	Amsterdam	Amsterdam Street R. R. Co.	173.30	67.15				\$106.15	
388	Auburn	Auburn City R'y Co.	177.13	119.60	57.53				
390	Binghamton	Binghamton and Port Dickenson R. R. Co.	940.92	809.42	131.50				
392	Binghamton	Court Street and East End R. R. Co.	145.29	133.51	11.78				
393	Brooklyn	Atlantic Avenue R'y Co.	19,421.49	12,197.88	5,483.61	1,740.00			
394	Brooklyn	Broadway R. R. Co. of Brooklyn.	15,899.30	10,860.42	3,538.88	1,500.00			
395	Brooklyn	Brooklyn, Bushwick and Queens County R. R.	1,408.61	868.26	340.35	200.00			
396	Brooklyn	Brooklyn City and Newtown R. R. Co.	13,390.29	9,526.73	2,463.56	1,400.00			
397	Brooklyn	Brooklyn City R. R. Co.	137,571.56	105,772.47	21,839.09	9,960.00			
402	Brooklyn	Coney Island and Brooklyn R. R. Co.	9,008.85	6,566.15	1,642.70	800.00			
409	Brooklyn	Prospect Park and Coney Island R. R. Co. (City Div.)	5,398.54	4,254.76	623.78	520.00			
410	Brooklyn	Prospect Park and Flatbush R. R. Co.	128.09	113.80	14.29				
412	Brooklyn	South Brooklyn Central R. R. Co.	2,744.82	1,382.61	1,022.21	340.00			
413	Brooklyn	Van Brunt Street and Erie Basin R. R. Co.	600.20	395.26	133.97		70.97		
414	Buffalo	Buffalo East Side Street R'y Co.	8,612.33	7,071.76	1,540.57				
416	Buffalo	West Side Street R'y Co.	1,577.15		1,577.15				
417	Canandaigua	Canandaigua Street R. R. Co.	201.82	162.27	39.55				
418	Cortland	Cortland and Homer Horse R. R. Co.	388.90	247.01	141.89				
420	Far Rockaway	Rockaway Village R. R. Co.	41.38	41.38					
421	Frankfort	Frankfort and Ilion Street R. R. Co.	193.89	193.89					
422	Fredonia	Dunkirk and Fredonia R. R. Co.	922.80	730.43	192.37				
423	Fulton	Fulton and Oswego Falls Street R'y Co.	97.76	97.76					
424	Glens Falls	Glens Falls, Sandy Hill and Fort Edward Street R'y Co.	710.44	597.36	113.08				
426	Jamestown	Jamestown Street R'y Co.	426.42	321.23	105.19				
427	Johnstown	Johnstown, Gloversville and Kingsboro Horse R'y Co.	341.89	197.06	144.83				
428	Kingston	Kingston City R. R. Co.	977.49	681.48	296.01				
429	Lockport	Lockport Street R. R. Co.	218.13	32.09	186.04				
430	Long Island city	Long Island City and Newtwn R. R. Co.	143.25	125.00	18.25				
431	Long Island city	Steinway and Hunters Point R. R. Co.	2,325.76	1,563.90	761.86				
432	Mohawk	Herkimer and Mohawk Street R. R. Co.	287.49	214.95	72.54				
433	Mohawk	Mohawk and Ilion Horse R. R. Co.	327.63	239.46	88.17				
434	New Brighton	Staten Island Belt Line R. R. Co.	167.58	167.58					
435	Newburg	Newburg Street R'y Co.	612.31	612.31					
436	New York	Broadway and Seventh Avenue R. R. Co.	138,268.62	42,292.98	85,863.14	10,112.50			
437	New York	Central Cross Town R. R. Co.	20,213.02	1,467.37	18,745.65				
438	New York	Central Park, North and East River R. R. Co.	44,445.43	20,552.68	4,708.13	19,184.62			
439	New York	Chambers Street and Grand Street Ferry R. R. Co.	6,719.16	1,303.67	4,740.49	675.00			
440	New York	Christopher and Tenth Street R. R. Co.	19,431.91	2,060.72	17,371.19				
441	New York	Dry Dock, East Broadway and Battery R. R. Co.	34,162.31	19,387.47	10,974.84	3,800.00			
442	New York	Eighth Avenue R. R. Co.	40,300.62	18,859.23	19,219.39	2,222.00			
443	New York	Forty-second Street and Grand Street Ferry R. R. Co.	33,850.52	25,257.33	5,566.02	1,527.17		1,500.00	
444	New York	Forty-second Street, Manhattanville and Saint Nicholas Avenue R'y Co.	26,149.62	21,126.20	5,023.42				
445	New York	Harlem Bridge, Morrisania and Fordham R'y Co.	7,826.08	6,450.95	1,375.13				
446	New York	Houston, West Street and Pavonia Ferry R. R. Co.	11,704.12	5,536.63	1,617.49	3,550.00	1,000.00		
448	New York	Larchmont Horse R'y Co.	146.26	101.15	45.11				
451	New York	Mount Vernon and East Chester R'y Co.	303.32	303.32					
452	New York	New Rochelle and Pelham R'y Co.	2,000.00	2,000.00					
454	New York	New York and Harlem R. R. Co. (St. R'y Div.)	23,651.97	14,525.51	9,126.46				
455	New York	Ninth Avenue R. R. Co.	13,897.87	1,764.28	11,093.59	1,040.00			
456	New York	Pelham Park R. R. Co.	6344.80	344.80					
457	New York	Second Avenue R. R. Co.	42,648.30	42,648.30					
458	New York	Sixth Avenue R. R. Co.	43,134.88	32,902.57	5,832.31	4,400.00			
461	New York	Twenty-third Street R'y Co.	436,512.40	4,797.70	31,714.70				
462	Niagara Falls	Niagara Falls and Suspension Bridge R'y Co.	875.38	648.51	226.87				
463	Ogdensburg	Ogdensburg Street R'y Co.	117.20	41.70	75.50				
464	Olean	Olean Street R'y Co.	248.93	199.95	48.98				
465	Oneida	Oneida R'y Co.	192.48	192.48					
466	Oneonta	Oneonta Street R'y Co.	119.71	80.56	39.15				
467	Oswego	Oswego Street R'y Co.	186.64	98.80	87.84				

a Given in Table 7 as \$1,526.

b Given in Table 7 as \$344.30.

c Appears in Table 7 as \$42,000. This amount actually paid. The item "taxes and licenses", Table 7, estimated.

d The difference between this total and the entry under "taxes and licenses" in Table 7 is explained as due to an unsettled legal controversy regarding the

TABLE 9.—TAXES, LICENSES, AND OTHER PUBLIC CHARGES, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	PAYMENTS.					
			Total.	General taxes.	Specific taxes (on earnings, dividends, etc.).	Car licenses.	Other licenses.	Tolls over bridges and viaducts.	Constructing and maintaining pavements not used by company.
NEW YORK—cont'd.								
469	Rochester	Rochester R'y Co.	\$15,724.89	\$15,724.89				
470	Rome	Rome City Street R'y Co.	282.16	282.16				
471	Schenectady	Schenectady Street R'y Co.	151.31	147.56	\$3.75			
472	Stillwater	Stillwater and Mechanicsville Street R'y Co.	227.36	171.17	56.19			
473	Syracuse	Central City R'y Co.	1,438.71	1,227.56	211.15			
474	Syracuse	Fifth Ward R. R. Co.	872.01	683.76	188.25			
475	Syracuse	Fourth Ward R'y Co.	313.18	125.58	187.60			
476	Syracuse	Genesee and Water Street R. R. Co.	940.03	388.71	551.32			
477	Syracuse	New Brighton and Onondaga Valley R. R. Co.		65.29				
478	Syracuse	People's R. R. Co. of Syracuse.	941.65	941.65				
479	Syracuse	Syracuse and Geddes R'y Co.	874.28	436.56	437.72			
480	Syracuse	Syracuse and Onondaga R'y Co.	1,375.50	709.41	666.09			
482	Syracuse	Woodlawn and Butternut Street R'y Co.	251.09	126.38	124.71			
484	Troy	Troy and Albion Horse R. R. Co.	756.92	546.79	210.13			
487	Utica	Utica and Mohawk R. R. Co.	242.00	111.52	130.48			
NORTH CAROLINA.								
490	Charlotte	Charlotte Street R'y Co.	165.00	165.00				
491	Raleigh	Raleigh Street R'y Co.	100.00	100.00				
OHIO.								
493	Bellaire	Bellaire Street R'y Co.	262.94	262.94				
494	Berea	Berea Street R. R. Co.	40.00	40.00				
505	Cleveland	Woodland Avenue and West Side Street R. R. Co.	600.00			\$600.00		
506	Columbus	Columbus Consolidated Street R. R. Co.	4,140.68	4,140.68				
509	Dayton	Dayton Street R. R. Co.	486.57	486.57				
510	Dayton	Fifth Street R. R. Co.	472.00	472.00				
511	Dayton	Oakwood Street R'y Co.	781.65	781.65				
512	Dayton	Wayne and Fifth Street R. R. Co.	329.11	329.11				
513	Findlay	Blanchard Avenue Street R'y Co.	84.00	84.00				
514	Findlay	Findlay Street R'y Co.	229.48	229.48				
516	Findlay	Wyoming Place and Findlay Street R'y Co.	52.00	52.00				
520	Lorain	Lorain Street R'y Co.	29.50	29.50				
522	Middletown	Middletown and Madison Street R'y Co.	86.00	86.00				
524	Newark	Newark City R'y Co.	203.28	203.28				
527	Sandusky	Sandusky Street R'y Co.	300.16	300.16				
528	Springfield	Citizens' Street R. R. Co.	624.04	624.04				
531	Toledo	Toledo Consolidated Street R'y Co.	5,037.64	5,037.64				
532	Youngstown	Youngstown Street R. R. Co.	238.40	198.40		40.00		
533	Zanesville	Zanesville and McIntire Street R'y Co.	400.00	400.00				
OREGON.								
534	Albany	Albany Street R'y Co.	35.00	35.00				
535	Astoria	Astoria Street R'y Co.	341.75	241.75		100.00		
541	Portland	Portland Street R'y Co.	650.00	450.00	200.00			
542	Portland	Transcontinental Street R'y Co.	677.00	677.00				
PENNSYLVANIA.								
545	Altoona	City Passenger R'y Co.	396.64	245.57	151.07			
546	Beaver Falls	Beaver Valley Street R'y Co.	914.96	120.00	194.96			\$600.00
547	Bradford	Bradford and Kendall Street R'y Co.	40.00	15.00		25.00		
548	Chester	Chester Street R'y Co.	1,008.85		868.85	140.00		
549	Easton	Easton, South Easton and West End Passenger R'y Co.	10.00			10.00		
553	Harrisburg	Harrisburg City Passenger R'y Co.	1,414.52	236.47	629.03	127.00	\$422.02	
554	Lancaster	Lancaster and Millersville R. R. Co.	207.95	207.95				
555	Lancaster	Lancaster City Street R'y Co.	266.33	266.33				
556	Lancaster	West End Street R'y Co.	10.00			10.00		
558	Norristown	Citizens' Passenger R'y Co.	174.69	174.69				
559	Norristown	Norristown Passenger R'y Co.	176.44	104.70	71.74			
561	Philadelphia	Citizens' Passenger R'y Co.	21,770.50	1,826.47	17,261.03	2,175.00	508.00	
563	Philadelphia	Empire Passenger R'y Co.	3,977.50	2,340.00		1,637.50		
565	Philadelphia	Hestonville, Mantua and Fairmount Passenger R. R. Co.	14,470.32	12,420.32		2,050.00		
567	Philadelphia	Lombard and South Streets Passenger R'y Co.	3,003.87	1,412.11	1,591.76			
568	Philadelphia	Manayunk and Roxboro Inclined Plane and R'y Co.	302.66	74.43	228.23			
569	Philadelphia	People's Passenger R'y Co.	45,838.53	6,195.66	30,492.87	9,150.00		
570	Philadelphia	Philadelphia and Grays Ferry Passenger R'y Co.	5,259.18	5,259.18				
573	Philadelphia	Ridge Avenue Passenger R'y Co.	19,355.15	19,355.15				
574	Philadelphia	Second and Third Streets Passenger R'y Co.	30,478.79	3,679.89	22,773.90	4,025.00		
576	Philadelphia	Thirteenth and Fifteenth Streets Passenger R'y Co.	24,061.83	2,184.70	19,077.13	2,800.00		
587	Pittsburg	Pittsburg, Allegheny and Manchester Passenger R'y Co.	15,065.53	1,256.93	7,848.60			5,960.00
589	Pittsburg	Pittsburg and Birmingham Traction Co.	5,988.41	1,522.39	2,700.06			1,765.96
590	Pittsburg	Pittsburg and West End Passenger R'y Co.	3,285.15	639.00	2,646.15			
593	Pittsburg	Pittsburg Union Passenger R'y Co.	4,394.30	435.37	1,458.93			2,500.00
598	Pittston	Pittston Street Car Co.	85.11	53.64	31.47			
601	Reading	Reading City Passenger R'y Co.	1,427.07	494.63	567.44	365.00		
603	Stroudsburg	Stroudsburg Passenger R'y Co.	92.50	92.50				

a Given in Table 7 as \$313.80.

b Given in Table 7 as \$791.00

STREET RAILWAYS.

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TABLE 9.—TAXES, LICENSES, AND OTHER PUBLIC CHARGES, FOR THE CENSUS YEAR—Continued.

RAILWAYS OPERATED BY ANIMAL POWER—Continued.

No.	STATES AND CITIES.	Name of road.	PAYMENTS.						
			Total.	General taxes.	Specific taxes (on earnings, dividends, etc.).	Car licenses.	Other licenses.	Tolls over bridges and viaducts.	Constructing and maintaining pavements not used by company.
PENNSYLVANIA—CON.									
605	Wilkesbarre.....	Coalville Passenger R. R. Co.....	\$353.46	\$173.77	\$179.69				
606	Wilkesbarre.....	Wilkesbarre and Kingston Passenger R'y Co.....	1,677.12	257.54	459.58			\$960.00	
609	Williamsport.....	Williamsport Passenger R'y Co.....	693.06	412.94	280.12				
610	York.....	York Street R'y Co.....	144.64	44.64		\$100.00			
RHODE ISLAND.									
612	Pawtucket.....	Pawtucket Street R'y Co.....	1,098.95	1,098.95					
614	Providence.....	Union R. R. Co.....	16,496.96	8,466.96			\$8,030.00		
615	Woonsocket.....	Woonsocket Street R'y Co.....	341.53	341.53					
SOUTH CAROLINA.									
616	Charleston.....	Charleston City R'y Co.....	7,650.00	7,150.00		500.00			
617	Charleston.....	Enterprise R. R. Co.....	3,025.52	2,385.52		500.00	140.00		
618	Charleston.....	Middle Street Sullivan's Island R'y Co.....	216.50	216.50					
619	Greenville.....	Street R'y Co. of the City of Greenville.....	177.80	77.80			100.00		
SOUTH DAKOTA.									
622	Pierre.....	Pierre City R'y Co.....	200.00	150.00		50.00			
623	Rapid city.....	Rapid City Street R. R. Co.....	2132.75	132.75					
TENNESSEE.									
630	Chattanooga.....	City Street R. R. Co.....	2,000.00	1,880.00		120.00			
631	Clarksville.....	Clarksville Street R'y Co.....	317.00	317.00					
632	Cleveland.....	Cleveland Street R'y Co.....	78.50	28.50			50.00		
633	Columbia.....	Columbia Street R'y Co.....	189.70	113.20		76.50			
634	Jackson.....	Jackson and Suburban Street R. R.....	100.00	100.00					
636	Knoxville.....	West End Street R. R. Co.....	326.93			326.93			
TEXAS.									
643	Denison.....	Denison Street R'y.....	157.50	157.50					
644	El Paso.....	El Paso Street R'y Co.....	537.94	537.94					
648	Gainesville.....	Gainesville Street R'y Co.....	145.00	145.00					
649	Galveston.....	Galveston City R. R. Co.....	1,800.00	1,608.00		192.00			
651	Houston.....	Houston City Street R'y Co.....	2,175.00	2,175.00					
653	Longview.....	Longview and Junction R'y Co.....	44.00	44.00					
654	Marshall.....	Marshall Street Railway and Transportation Co.....	65.00	65.00					
655	Paris.....	Paris R'y Co.....	280.00	280.00					
656	San Antonio.....	Cross Town R. R. Co.....	83.70	83.70					
660	Waco.....	Waco Street R'y Co.....	1,100.00	1,100.00					
VERMONT.									
664	Burlington.....	Winooski and Burlington Horse R. R. Co.....	283.64	283.64					
665	Rutland.....	Rutland Street R'y Co.....	352.29	30.00	322.29				
VIRGINIA.									
666	Charlottesville.....	Charlottesville and University Street R'y Co.....	170.00	58.00	112.00				
668	Lynchburg.....	Lynchburg Street R'y Co.....	102.44	102.44					
670	Norfolk.....	Norfolk City R. R. Co.....	1,653.80	1,280.75	373.05				
671	Norfolk.....	Suburban and City Railway and Improvement Co.....	304.93	104.18	200.75				
673	Richmond.....	Richmond and Manchester R'y Co.....	245.82	245.82					
WASHINGTON.									
685	Wallawalla.....	Wallawalla Street Railway and Investment Co.....	46.10	46.10					
WEST VIRGINIA.									
687	Parkersburg.....	Park City Street R'y.....	18.00			18.00			
WISCONSIN.									
695	Lacrosse.....	Lacrosse City R'y Co.....	844.95	844.95					
697	Milwaukee.....	Cream City R'y Co.....	315.00			315.00			
699	Milwaukee.....	Milwaukee City R. R. Co.....	6,883.49	5,338.49		1,545.00			
702	Oshkosh.....	Oshkosh Street R. R. Co.....	279.25	279.25					
703	Racine.....	Belle City Street R'y Co.....	425.00	425.00					

a Given in Table 7 as \$132.65.

STATISTICS OF TRANSPORTATION.

TABLE 9.—TAXES, LICENSES, AND OTHER PUBLIC CHARGES, FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS.

No.	STATES AND CITIES.	Name of road.	PAYMENTS.						Constructing and maintaining pavements not used by company.
			Total.	General taxes.	Specific taxes (on earnings, dividends, etc.).	Car licenses.	Other licenses.	Tolls over bridges and viaducts.	
87	CONNECTICUT. Birmingham	Derby Street R'y Co.....	\$553.00	\$553.00					
104	DELAWARE. Wilmington	Wilmington City R'y Co.....	155.00	8.00			\$147.00		
109	DIST. OF COLUMBIA. Washington	Eckington and Soldiers' Home R'y Co.....	36.32	36.32					
121	GEORGIA. Atlanta.....	Atlanta and Edgewood Street R. R. Co.....	100.00			\$100.00			
123	Atlanta.....	Fulton County Street R. R. Co.....	1,321.09	1,198.24			122.85		
150	ILLINOIS. Decatur	Citizens' Electric Street R'y Co.....	1,065.60	1,065.60					
156	Moline	Moline Central Street R'y Co.....	400.00	400.00					
158	Peoria	Central R'y Co.....	2,749.19	2,749.19					
166	INDIANA. Elkhart	Citizens' Street R'y Co.....	89.26	89.26					
174	Lafayette.....	Lafayette Street R'y Co.....	445.91	445.91					
191	IOWA. Council Bluffs	Omaha and Council Bluffs Railway and Bridge Co.....	5,731.00	5,731.00					
222	KANSAS. Topeka	Topeka Rapid Transit R'y Co.....	2,949.78	2,849.78		100.00			
249	MASSACHUSETTS. Attleboro.....	Attleboro, North Attleboro and Wrentham Street R'y Co.....	326.34	207.62	\$118.72				
252	Boston.....	Boston and Revere Electric Street R'y Co.....	148.51	148.51					
257	Boston.....	Quincy and Boston Street R'y Co.....	527.52	527.52					
261	Brockton	East Side Street R'y Co.....	7.12	7.12					
270	Marlboro	Marlboro Street R'y Co.....	483.58	483.58					
274	North Adams.....	Hoosac Valley Street R'y Co.....	138.78	138.78					
278	Plymouth	Plymouth and Kingston Street R'y Co.....	206.08	206.08					
287	MICHIGAN. Detroit	East Detroit and Grossepoint R'y Co.....	43.09	43.09					
289	Detroit	Highland Park R'y Co.....	187.09	187.09					
294	Port Huron.....	Gratiot Electric R'y Co.....	327.40	177.40					
297	Sault Ste. Marie.....	Sault Ste. Marie Street R'y Co.....	17.58	17.58					\$150.00
319	MISSOURI. Kansas city.....	North East Street R'y Co.....	537.14	337.14		200.00			
323	Kansas city.....	Vine Street Motor R'y Co.....	185.00	110.00		75.00			
324	Saint Joseph.....	People's Street Railway and Electric Light and Power Co.....	2,495.00	2,300.00		195.00			
325	Saint Joseph.....	Wyatt Park R'y Co.....	878.24	436.36		193.75			248.13
368	NEW JERSEY. Asbury Park	Seashore Electric R'y Co.....	3,000.00		3,000.00				
425	NEW YORK. Ithaca	Ithaca Street R. R.....	88.46	63.62	24.84				
468	Rochester	Rochester Electric R'y Co.....	445.34	445.34					
481	Syracuse	Third Ward R'y Co.....	272.50	272.50					
488	Utica	Utica Belt Line Street R. R. Co.....	441.78	441.78					
492	OHIO. Akron	Akron Street R. R. Co.....	1,000.00	1,000.00					
496	Cincinnati.....	Cincinnati Incline Plane R'y Co.....	1,252.72	1,252.72					
500	Cleveland	Broadway and Newburg Street R. R. Co.....	3,153.69	3,153.69					
503	Cleveland	East Cleveland R. R. Co.....	6,986.65	6,986.65					
519	Lima	Lima Street Railway, Motor and Power Co.....	423.43	423.43					
521	Mansfield.....	Mansfield Electric Street R'y Co.....	500.00	500.00					
523	Newark	Newark and Granville Electric Street R'y Co.....	20.00	20.00					
536	OREGON. Portland.....	Metropolitan R'y Co.....	300.00	200.00		100.00			
551	PENNSYLVANIA. Erie	Erie Electric Motor Co.....	1,621.10	724.61	896.49				
552	Harrisburg.....	East Harrisburg Passenger R'y Co.....	1,495.94	107.43	1,388.51				
566	Philadelphia.....	Lehigh Avenue R'y Co.....	200.00			200.00			
582	Pittsburg.....	Federal Street and Pleasant Valley Passenger R'y Co.....	7,166.79	709.79	3,657.00	1,300.00		\$1,500.00	

STREET RAILWAYS.

TABLE 9.—TAXES, LICENSES, AND OTHER PUBLIC CHARGES, FOR THE CENSUS YEAR—Continued.

ELECTRIC RAILWAYS—Continued.

No.	STATES AND CITIES.	Name of road.	PAYMENTS.						
			Total.	General taxes.	Specific taxes (on earnings, dividends, etc.).	Car licenses.	Other licenses.	Tolls over bridges and viaducts.	Constructing and maintaining pavements not used by company.
	PENNSYLVANIA—CON.								
595	Pittsburg	Second Avenue Passenger R'y Co.	\$242.95	\$152.25	\$90.70	-----	-----	-----	
597	Pittsburg	Suburban Rapid Transit Street R'y Co.	14.33	14.33	-----	-----	-----	-----	
599	Reading	East Reading R. R. Co.	95.00	-----	95.00	-----	-----	-----	
602	Scranton	People's Street R'y Co.	1,724.19	260.46	1,463.73	-----	-----	-----	
607	Wilkesbarre	Wilkesbarre and Suburban Street R'y Co.	128.93	66.92	62.01	-----	-----	-----	
	RHODE ISLAND.								
611	Newport	Newport Street R'y Co.	639.00	639.00	-----	-----	-----	-----	
	TENNESSEE.								
629	Chattanooga	Chattanooga Electric Street R. R. Co.	805.00	475.00	-----	\$180.00	\$150.00	-----	
641	Nashville	United Electric R'y	8,599.15	8,599.15	-----	-----	-----	-----	
	UTAH.								
663	Salt Lake city	Salt Lake City R. R. Co.	1,363.84	963.84	-----	400.00	-----	-----	
	VIRGINIA.								
667	Danville	Danville Street Car Co.	92.55	92.55	-----	-----	-----	-----	
	WASHINGTON.								
680	Seattle	Seattle Electric Railway and Power Co.	1,677.91	1,665.66	-----	-----	-----	-----	\$12.25
	WISCONSIN.								
691	Appleton	Appleton Electric Street R'y Co.	427.00	427.00	-----	-----	-----	-----	
700	Milwaukee	Milwaukee Electric R'y Co.	180.00	-----	-----	180.00	-----	-----	

STATISTICS OF TRANSPORTATION.

TABLE 9.—TAXES, LICENSES, AND OTHER PUBLIC CHARGES, FOR THE CENSUS YEAR—Continued.

CABLE RAILWAYS.

No.	STATES AND CITIES.	Name of road.	PAYMENTS.					
			Total.	General taxes.	Specific taxes (on earnings, dividends, etc.).	Car licenses.	Other licenses.	Tolls over bridges and viaducts.
	CALIFORNIA.							
33	Los Angeles.....	Second Street Cable R. R. Co.....	\$36.32				\$36.32	
34	Los Angeles.....	Temple Street Cable R'y Co.....	1,167.60	\$967.60		\$200.00		
38	Oakland.....	Oakland R. R. Co.....	2,511.86	2,421.86		90.00		
58	San Francisco.....	California Street Cable R. R. Co.....	4,059.66	3,737.16		322.50		
65	San Francisco.....	Omnibus Cable Co.....	11,000.00	9,650.00		1,350.00		
68	San Francisco.....	Sutter Street R'y Co.....	7,735.15	7,097.65		637.50		
	COLORADO.							
81	Denver.....	Denver City Cable R'y Co.....	44,351.52	2,501.52		1,850.00		
	DIST. OF COLUMBIA.							
112	Washington.....	Washington and Georgetown R. R. Co.....	3,750.00	3,750.00				
	IOWA.							
197	Dubuque.....	Eleventh Street Elevated R. R.....	35.00	35.00				
	MICHIGAN.							
291	Grand Rapids.....	Valley City Street and Cable R'y Co.....	615.30	575.30		40.00		
	MISSOURI.							
315	Kansas city.....	Grand Avenue R'y Co.....	3,709.51	2,688.00		1,021.51		
317	Kansas city.....	Kansas City Cable R'y Co.....	8,015.23	5,048.56		2,966.67		
321	Kansas city.....	People's Cable R'y Co.....	1,414.66	1,414.66				
334	Saint Louis.....	Missouri R. R. Co.....	10,840.25	8,240.25		2,600.00		
	MONTANA.							
346	Butte city.....	Butte City Street R'y Co.....	1,400.00	1,300.00	\$100.00			
	OHIO.							
499	Cincinnati.....	Mount Auburn Cable R'y Co.....	1,850.00				1,850.00	
	PENNSYLVANIA.							
544	Allegheny.....	Troy Hill Inclined Plane and Bridge Co.....	46.41	46.41				
583	Pittsburg.....	Fort Pitt Inclined Plane R'y Co.....	398.98	231.79	167.19			
584	Pittsburg.....	Monongahela Inclined Plane Co.....	1,443.82	608.10	835.72			
592	Pittsburg.....	Pittsburg Traction Co.....	17,310.13	4,666.06	12,644.07			
594	Pittsburg.....	Saint Clair Inclined Plane Co.....	274.76	144.23	130.53			
	WASHINGTON.							
677	Seattle.....	Front Street Cable R'y Co.....	2,500.00	2,500.00				
678	Seattle.....	Lake Washington Cable R. R. Co.....	620.60	620.60				

a For 1890. The entry of taxes in Table 7 includes those paid for 1889.

STREET RAILWAYS.

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TABLE 9.—TAXES, LICENSES, AND OTHER PUBLIC CHARGES, FOR THE CENSUS YEAR—Continued.

STEAM PASSENGER RAILWAYS.

No.	STATES AND CITIES.	Name of road.	PAYMENTS.					
			Total.	General taxes.	Specific taxes (on earnings, dividends, etc.).	Car licenses.	Other licenses.	Tolls over bridges and viaducts.	Constructing and maintaining pavements not used by company.
ALABAMA.								
4	Birmingham	East Birmingham Land and R. R. Co	\$651.25	\$400.25			\$251.00	
5	Birmingham	Highland Avenue and Belt R. R. Co	2,171.71	1,921.71			250.00	
6	Birmingham	North Birmingham Street R. R. Co	532.30	281.30		\$251.00		
12	Sheffield	Sheffield Street R'y Co	140.00	140.00				
ARKANSAS.								
19	Little Rock	City Electric Street R'y Co	400.00	300.00		100.00		
CALIFORNIA.								
26	Los Angeles	Cahuenga Valley R. R. Co	13.00				13.00	
46	Pomona	Pomona Street R. R. Co	36.50	36.50				
54	San Bernardino	San Bernardino and Redlands R. R. Co	191.25	191.25				
55	San Bernardino	San Bernardino, Arrowhead and Waterman R. R. Co	273.46	228.46		45.00		
56	San Bernardino	Southern California Motor Road Co	25.00				25.00	
COLORADO.								
80	Denver	Denver and Berkeley Park Rapid Transit Co	689.60	569.60		120.00		
FLORIDA.								
119	Tampa	Tampa Street R'y Co	166.40	166.40				
GEORGIA.								
130	Lithia Springs	Salt Springs and Bowden Lithia R. R.	100.00	100.00				
131	Milledgeville	Milledgeville and Asylum Dummy R. R. Co	250.00	250.00				
ILLINOIS.								
137	Alton	Alton Improvement Association	203.50	203.50				
INDIANA.								
168	Evansville	Evansville Suburban and Newburg R'y Co	909.74	909.74				
IOWA.								
188	Cedar Rapids	Ceder Rapids and Marion R'y	411.40	411.40				
190	Council Bluffs	Lake Manawa R'y Co	500.00	500.00				
194	Des Moines	Des Moines Belt Line R'y Co	245.56	245.56				
204	Sioux city	Sioux City and Highland Park R'y Co	336.00	336.00				
KANSAS.								
220	Topeka	Topeka Belt R'y Co	64.68	64.68				
LOUISIANA.								
236	New Orleans	New Orleans, Spanish Fort and Lake R. R. Co	1,505.40	1,005.40			500.00	
MASSACHUSETTS.								
276	Onset	Onset Street R'y Co	70.26	70.26				
MINNESOTA.								
301	Minneapolis	Minneapolis, Lyndale and Minnetonka R'y Co	3,383.86	3,383.86				
MISSOURI.								
314	Kansas city	East Fifth Street R'y Co	279.63	246.28		33.35		
315	Kansas city	Grand Avenue R'y Co	32.25	15.30			16.95	
316	Kansas city	Kansas City and Independence Rapid Transit R'y	590.63	590.63				
338	Saint Louis	Saint Louis and Suburban R'y	1,720.48	1,720.48				
MONTANA.								
346	Butte city	Butte City Street R'y Co	1,300.00	1,200.00	\$100.00			
NEW YORK.								
399	Brooklyn	Brooklyn Elevated R. R. Co	10,191.15		10,191.15			
407	Brooklyn	Kings County Elevated R'y Co	1,047.75	747.75	300.00			
411	Brooklyn	Sea View R. R. Co	700.03	700.03				
449	New York	Manhattan R'y Co	452,924.98	29,456.61	423,468.37			
459	New York	Suburban Rapid Transit Co	19,018.82	950.25	18,068.57			
OREGON.								
538	Portland	Mount Tabor Street R. R. Co	17.00	7.00		10.00		
539	Portland	Portland and Vancouver R'y Co	493.43	493.43				
TENNESSEE.								
639	Nashville	Nashville and West Nashville R. R. Co	1,223.03	1,223.03				
640	Nashville	Overland R'y Co	2,164.50	2,164.50				
WEST VIRGINIA.								
689	Wheeling	Wheeling and Elm Grove R. R.	794.25	794.25				

TABLE 9.—TAXES, LICENSES, AND OTHER PUBLIC CHARGES, FOR THE CENSUS YEAR—Continued.

RAILWAYS USING MORE THAN ONE KIND OF MOTIVE POWER, THE STATISTICS FOR THE SEVERAL KINDS NOT BEING SEPARABLE.

No.	STATES AND CITIES.	Name of road.	Kind of motive power used.	PAYMENTS.						
				Total.	General taxes.	Specific taxes (on earnings, dividends, etc.).	Car licenses.	Other licenses.	Tolls over bridges and viaducts.	Constructing and maintaining pavements not used by company.
ALABAMA.										
3	Birmingham	Birmingham Railway and Electric Co.	Animal and steam	\$1, 194. 65	\$944. 65		\$250. 00			
10	Montgomery	Montgomery Terminal and Street R'y Co.	Animal and steam	1, 200. 00	1, 200. 00					
11	Selma	Selma Street R. R. Co.	Animal and steam	280. 00	250. 00		30. 00			
CALIFORNIA.										
31	Los Angeles	Pacific R'y Co.	Animal and cable	4, 973. 80	3, 973. 80		1, 000. 00			
38	Oakland	Oakland R. R. Co.	Animal and steam	852. 70	762. 70		90. 00			
61	San Francisco	Ferris and Cliff House R'y Co.	Steam and cable	6, 056. 95	5, 602. 95		450. 00	\$4. 00		
62	San Francisco	Geary Street Park and Ocean R. R. Co.	Steam and cable	5, 908. 83	4, 623. 39		255. 00	1. 50		\$1, 028. 94
63	San Francisco	Market Street Cable R'y Co.	Animal, steam, and cable	28, 768. 99	23, 793. 80		1, 348. 75	16. 50		3, 609. 94
67	San Francisco	Presidio and Ferris R. R. Co.	Animal, steam, and cable	3, 813. 96	3, 813. 96					
COLORADO.										
83	Denver	Denver Tramway Co.	Cable and electric	5, 435. 67	5, 435. 67					
CONNECTICUT.										
90	Hartford	Hartford and Wethersfield Horse R'y Co.	Animal and electric	8, 943. 52	3, 767. 85					5, 175. 67
GEORGIA.										
124	Atlanta	Metropolitan Street R. R. Co.	Animal and steam	1, 302. 71	1, 202. 71		100. 00			
128	Columbus	Columbus R. R. Co.	Animal and steam	432. 50	432. 50					
134	Savannah	City and Suburban R'y Co.	Animal and steam	2, 500. 00	1, 800. 00		500. 00	200. 00		
ILLINOIS.										
142	Chicago	Chicago City R'y Co.	Animal and cable	76, 088. 86	59, 674. 86		16, 414. 00			
145	Chicago	North Chicago Street R. R. Co.	Animal and cable	41, 029. 90	32, 919. 05		8, 110. 85			
147	Chicago	West Chicago Street R. R. Co.	Animal and cable	53, 466. 42	38, 393. 06		15, 073. 36			
161	Rock Island	Rock Island and Milan Street R'y Co.	Animal and steam	879. 92	779. 92				\$100. 00	
IOWA.										
195	Des Moines	Des Moines Street R. R. Co.	Animal and electric	348. 52	348. 52					
KANSAS.										
212	Kansas city	Interstate Consolidated Rapid Transit R'y Co.	Steam and cable	1, 310. 30	897. 80		412. 50			
LOUISIANA.										
235	New Orleans	New Orleans City and Lake R. R. Co.	Animal and steam	47, 513. 10	45, 013. 10			2, 500. 00		
MASSACHUSETTS.										
253	Boston	Lynn and Boston R. R. Co.	Animal and electric	9, 597. 01	9, 597. 01					
259	Boston	West End Street R'y Co.	Animal and electric	222, 377. 80	222, 377. 80					
268	Lowell	Lowell and Dracut Street R'y Co.	Animal and electric	1, 134. 69	1, 134. 69					
273	Newburyport	Newburyport and Amesbury Horse R. R. Co.	Animal and electric	1, 510. 89	1, 510. 89					
279	Springfield	Springfield Street R'y Co.	Animal and electric	6, 989. 04	6, 989. 04					
MICHIGAN.										
290	Grand Rapids	Street R'y Co. of Grand Rapids.	Animal and steam	2, 826. 55	2, 826. 55					
296	Saginaw	Saginaw Union Street R'y	Animal and electric	3, 270. 89	3, 270. 89					
MINNESOTA.										
304	Saint Paul	Saint Paul City R'y Co.	Animal, cable, and electric	5, 780. 00	5, 400. 00		380. 00			
MISSOURI.										
318	Kansas city	Metropolitan Street R'y Co.	Animal, cable, and electric	17, 465. 42	12, 075. 33		5, 390. 09			
329	Saint Louis	Citizens' R'y Co.	Animal and cable	21, 000. 00	9, 000. 00	\$10, 000. 00	2, 000. 00			
333	Saint Louis	Lindell R'y Co.	Animal and electric	5, 766. 79	3, 995. 79		1, 700. 00	71. 00		
NEBRASKA.										
355	Lincoln	Capital Heights Street R'y Co.	Animal and electric	350. 00	20. 00					
361	Omaha	Omaha Street R'y Co.	Animal, cable, and electric	5, 105. 75	5, 105. 75					330. 00
NEW JERSEY.										
373	Jersey city	North Hudson County R'y Co.	Animal, steam, and cable	16, 567. 40	16, 567. 40					
NEW YORK.										
384	Albany	Albany R'y	Animal and electric	5, 019. 48	3, 572. 25	1, 447. 23				
386	Albany	Watervliet Turnpike and R. R. Co.	Animal and electric	5, 037. 58	2, 947. 57				2, 090. 01	
415	Buffalo	Buffalo Street R. R. Co.	Animal and electric	7, 107. 72	5, 567. 02	1, 540. 70				
419	Elmira	Elmira and Horseheads R'y Co.	Animal and steam	1, 250. 27	977. 87	272. 40				
460	New York	Third Avenue R. R. Co.	Animal and cable	74, 159. 81	58, 884. 03	12, 115. 78	3, 160. 00			
486	Troy	Troy and Lansingburg R.R. Co.	Animal and electric	14, 277. 95	5, 737. 28	2, 540. 67			6, 000. 00	

STREET RAILWAYS.

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TABLE 9.—TAXES, LICENSES, AND OTHER PUBLIC CHARGES, FOR THE CENSUS YEAR—Continued.

RAILWAYS USING MORE THAN ONE KIND OF MOTIVE POWER, ETC.—Continued.

No.	STATES AND CITIES.	Name of road.	Kind of motive power used.	PAYMENTS.						
				Total.	General taxes.	Specific taxes (on earnings, dividends, etc.)	Car licenses.	Other licenses.	Tollsover bridges and viaducts.	Con-structing and main-taining pave-ments not used by company.
OHIO.										
497	Cincinnati	Cincinnati Street R'y Co	Animal, cable, and electric.	\$50,862.92	\$14,326.40	\$27,452.32	\$8,956.20	\$128.00		
498	Cincinnati	Mount Adams and Eden Park Inclined R'y.	Animal and cable	5,098.38	3,698.38		1,400.00			
501	Cleveland	Brooklyn Street R. R. Co. and South Side Street R. R. Co.	Animal and electric	7,994.03	5,099.03				\$2,895.00	
PENNSYLVANIA.										
564	Philadelphia	Frankford and Southwark Passenger R. R. Co.	Animal and steam	41,913.94	6,119.20	31,494.74	4,300.00			
572	Philadelphia	Philadelphia Traction Co.	Animal and cable	127,696.88	24,078.72	84,570.32	19,047.84			
579	Pittsburg	Central Traction Co.	Animal and cable	332.84	332.84					
580	Pittsburg	Citizens' Traction Co.	Animal and cable	31,088.20	11,604.57	18,305.13			1,178.50	
585	Pittsburg	Mount Oliver Incline R'y Co.	Animal and cable	1,897.32	326.27	1,571.05				
RHODE ISLAND.										
613	Providence	Providence Cable Tramway Co.	Animal and cable	125.00				125.00		
VIRGINIA.										
675	Roanoke	Roanoke Street R'y Co	Animal and steam	126.00	126.00					
WEST VIRGINIA.										
690	Wheeling	Wheeling R'y Co.	Animal and electric	10,757.13	1,375.17			20.00	9,361.96	

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CABLE RAILWAYS—Continued.	Page.	COST.—Continued.	Page.
receipts from passengers per car mile	113	rolling stock—	
taxes, licenses, and other public charges	186	animal power railways	52-65
total—		cable railways	70, 71
cost	4	electric railways	66-69
expenditures	154, 155	steam passenger railways	72-75
indicated horse power	46, 47	Curves, number of, on cable railways	46, 47
length of cables	46, 47	D.	
number of passengers carried	113	Date—	
receipts	154, 155	beginning operations—	
receipts from passengers	113	cable railways	18
salaries and wages paid employes	96, 97	electric railways	18
salaries paid officers and office employes	96, 97	corporate charters	26-35
weight of rail	46, 47	taking balance for balance sheet	162-177
Cables—		Description of roads and equipment	36-51
cost of, by cable railways	70, 71	Development—	
number of, owned by cable railways	46, 47	cable railways	3
total length of	46, 47	electric railways	3
Capital stock issued and outstanding	117-135	Dividends for the year—	
Car—		declared	117-135
licenses	178-189	paid	117-135
mileage	104-116	Dummy engines, number of, on steam passenger railways	48, 49
Cars operated at one time on each road, number of	36-51	Dynamos, number of, used by electric railways	43-45
Companies reporting, names of	26-35	E.	
Comparative—		Electrical street construction, cost of, by electric railways	66-69
grades—		ELECTRIC RAILWAYS—	
cable railways	17	average—	
electric railways	17	number of cars operated at one time	43-45
ratios of street railway traffic to urban population contained in cities		receipts per car mile	20
of 8,000 inhabitants and upward	9	receipts per passenger	111, 112
summary of street railways and population in European and American cities	7	weight of rail	17
Comparison—		capital stock	126-128
street railway statistics with steam railways	4	comparative grades	17
street railways with population for cities having over 100,000 inhabitants	16	cost—	
Comprehensive view of the roads	26-35	acquisition of line not built by company	66-69
Construction and real estate—		construction and real estate for all line owned	66-69
for all line owned, cost of	52-77	construction and real estate of roadbed and track	66-69
per mile owned, cost of	52-77	construction and real estate per mile owned	66-69
roadbed and track, cost of—		electrical street construction	66-69
animal power railways	52-65	equipment for all line operated	66-69
electric railways	66-69	equipment per mile operated	66-69
roadbed, superstructure, and rails, cost of, by steam passenger railways	72-75	miscellaneous items of construction	66-69
track, roadbed, and conduits, cost of, by cable railways	70, 71	miscellaneous items of equipment	66-69
Corporate charters, dates of	26-35	motors, trolleys, and fittings	66-69
Cost—		passenger cars	66-69
acquisition of line not built by company	52-77	per mile of line	19
cables by cable railways	70, 71	power, plant, land, and buildings	66-69
construction and real estate—		right of way	66-69
for all line owned	52-77	road and equipment	66-69
per mile owned	52-77	rolling stock	66-69
roadbed and track by animal power railways	52-65	dates of beginning operations	18
roadbed and track by electric railways	66-69	development of	3
roadbed, superstructure, and rails by steam passenger railways	72-75	length—	
track, roadbed, and conduits by cable railways	70, 71	all tracks	43-45
electrical street construction by electric railways	66-69	line	43-45
equipment—		steepest grade	43-45
for all line operated	52-77	number—	
per mile operated	52-77	beginning to operate in each year	3
grips by cable railways	70, 71	dynamos	43-45
harness by animal power railways	52-65	employes	92-95
horses and mules by animal power railways	52-65	engines	43-45
land and buildings by animal power railways	52-65	motor cars	43-45
land, buildings, and fixtures by steam passenger railways	72-75	officers and office employes	92-95
locomotives and dummies by steam passenger railways	72-75	passenger cars	43-45
miscellaneous items—		passengers carried	4
construction	52-77	passengers carried per mile	20
equipment	52-72	power stations	43-45
motors, trolleys, and fittings by electric railways	66-69	tow cars on electric railways	43-45
passenger cars—		per cent—	
animal power railways	52-65	operating expenses to operating earnings	21
cable railways	70, 71	rise of steepest grade	43-45
electric railways	66-69	radius of sharpest curves	43-45
steam passenger railways	72-75	receipts from passengers per car mile	111, 112
per mile of line—		taxes, licenses, and other public charges	184, 185
animal power railways	19	total—	
cable railways	19	cost	4
electric railways	19	expenditures	150-153
steam passenger railways	19	indicated horse power	43-45
power, plant, land, and buildings—		number of passengers carried	111, 112
cable railways	70, 71	receipts	150-153
electric railways	66-69	receipts from passengers	111, 112
right of way	52-77	salaries and wages paid employes	92-95
roads and equipment	52-77	salaries paid officers and office employes	92-95
		weight of roll	43-45

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	Page.	TOTAL—Continued.	Page.
Steepest grade—Continued.		number—continued.	
per cent of rise—		passenger cars in use	4
cable railways	46, 47	passengers carried	104-116
electric railways	43-45	number of lines—	
Stockholders of companies, number of	26-35	animal power railways	16
		cable railways	16
		electric railways	16
		steam passenger railways	16
		receipts from passengers	104-116
		weight of rail—	
		animal power railways	17
		cable railways	17
		electric railways	17
		steam passenger railways	17
		Tow cars on electric railways, number of	43-45
		Traffic of street railways compared to urban population contained in cities	
		of 8,000 inhabitants and upward	9
		Trail cars, number of, on cable railways	46, 47
		U.	
		Urban population contained in cities of 8,000 inhabitants and upward,	
		traffic of street railways compared to	9
		W.	
		WAGES PAID EMPLOYÉS—	
		total—	
		salaries and wages paid	78-103
		salaries paid officers and office employés	78-103

